





www.gefen.com/download/software

Seamless Performance Through Software

Gefen Syner-G[™] Software introduces powerful new management features, enabling a level of performance and control not typically found on standard video distribution systems.

What's new in Gefen Syner-G™ 2.0?

- New and Improved user interface for quick access to Discover and Configure IP, Manage a Product, and EDID Editor
- Added 4K60 4:2:0 Support
- New Firmware Update Detection for supported products
- And more....see Release Notes for details

Discover C

- Automatically discover all supported Gefen products on your IP network no matter how it's configured.
- Remotely manage the network settings of your Gefen device.
- The Show Me feature makes finding any Gefen product in your rack a snap.

- Firmware updating has never been easier.
- Checking for the latest firmware update on a Gefen product is a click away.
- Remotely install firmware on any connected Gefen device.

Monitor **T**

- View the status of Gefen connected devices for easy troubleshooting.
- Changes to a device's setting will be updated live in the software interface.
- The Show Me feature makes finding any Gefen product in your rack a snap.

Configure 🖳

- Change product settings on-the-fly without the need of an OSD or remote control.
- The layout mirrors the OSD or WEB interface of a Gefen product to make settings discovery quick and easy.
- Advanced configuration options are a click away with built-in shortcuts.

Manage 💌

- Unleash the power of Gefen's EDID tool to control what EDID is passed to a source device.
- The built-in EDID creation tool is a powerful application that will allow the build an EDID from scratch.
- Instantly view and modify any EDID that is stored in a Gefen product, along with any EDID storage banks.

visit gefen.com for product specs and features Features and specifications are subject to change without notice. Gefen, LLC is not responsible for typographical errors. All trademarks and registered trademarks are the property of their respective owners. Copyright® 2015 Gefen LLC Version: A2 R1

Experience the Power of 4K ULTRAHD 60Hz, 4:2:0

4K Extenders

- EXT-UHDA-HBT2: HDBaseTTM 2.0 Extender w/ RS-232, Ethernet, 2-way Audio and 2-way IR NEW
- GTB-UHD-HBT2: HDBaseT™ 2.0 Extender w/ RS-232 and 2-way IR NEW
- EXT-UHD-CAT5-ELRPOL: HDBaseT™ Extender w/ RS-232, Ethernet, and 2-way IR
- GTB-UHD2IRS-ELRPOL-BLK: HDBaseT™ Extender w/ RS-232 and 2-way IR
- GTB-HDBT-POL-BLK: HDBaseT™ Lite Extender w/ 2-way IR
- EXT-HDRS2IR-4K2K-1FO: HDMI Extender over One Fiber w/ RS-232 and 2-way IR

- GEF-UHD-89-HBT2: 8x9 Matrix for HDMI with HDCP 2.2 and HDBaseT™ 2.0 NEW
- EXT-UHD-88: 8x8 Matrix for HDMI with HDCP 2.2 NEW
- GTB-HD4K2k-848-BLK: 8x8 Matrix for HDMI
- GTB-HD4K2K-642-BLK: 6x2 Matrix for HDMI
- GTB-HD4K2K-444-BLK: 4x4 Matrix for HDMI
- GTB-HD4K2K-442-BLK: 4x2 Matrix for HDMI

• GTB-HD4K2K-441-BLK: 4x1 Switcher for HDMI

- GTB-HD4K2K-148C-BLK: 1:8 Splitter for HDMI NEW
- GTB-HD4K2K-144C-BLK: 1:4 Splitter for HDMI NEW
- GTB-HD4K2K-142C-BLK: 1:2 Splitter for HDMI NEW







GEF-UHD-89-HBT2

EXT-UHDA-HBT2

Itra HD 8x9 Matrix for HDMI w/ HDCP 2.2, HDBaseT™ 2.0 & POH

Supports 4K Ultra HD at 60 Hz 4:2:0 and 4K Cinema (DCI - 4096 x 2160) at 30 Hz HDCP 2.2 and 1.4 compliant

• 8x HDMI Inputs

- 8x HDBaseT 2.0 Outputs w/ POH
- 1x Local HDMI Output
- 8x 2-way IR Matrix
- 8x RS-232 Matrix
- Ethernet extension over HDBaseT™ to 8 remote locations
- Integrated web interface
- In-field firmware updates
- Advanced EDID Management
- Complete control from IR to Telnet/UDP
- Gefen Syner-G[™] compatible
- Rack-mountable

GTB-HD4K2K-142C/144C/148C-BLK

Supports 4K Ultra HD at 60 Hz 4:2:0 and 4K Cinema (DCI - 4096 x 2160) at 30 Hz Ten units can be cascaded to create large display arrays

- Perfect for retail showrooms and signage applications
- Advanced EDID Management
- In-Field firmware updates
- Surface-mountable







GTB-HD4K2K-144C

visit gefen.com for product specs and features

Features and specifications are subject to change without notice.

Gefen, LLC is not responsible for typographical errors.

All trademarks and registered trademarks are the property of their respective owners.

Copyright© 2015 Gefen LLC



Video over IP Solutions

Available for HDMI, DVI and VGA

EXT-HD2IRS-LAN: HDMI over IP w/ RS-232 and 2 Way IR

EXT-HDKVM-LAN: HDMI KVM over IP

EXT-DVIKVM-LAN: DVI KVM over IP

EXT-DVIKVM-LAN-L: DVI KVM over IP w/ Local DVI Out

EXT-VGAKVM-LAN: VGA KVM over IP

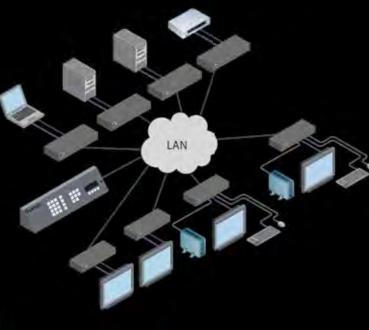
Designed for use with







Create a Scalable Virtual Matrix







EXT-CU-LAN: Matrix Controller NEW

Hardware Controller for Video over IP Products

Unique and versatile solution that sits in your equipment rack or on your meeting table

Comprehensive User Access Control

- Designed to monitor and control source access
- Group and user level access management
- Isolated control and video networks

How Easy Is It Really?

- One button auto IP assignment
- Automatic device detection using Gefen Syner-G™ Discovery service
- Flexible control options including front panel, IR remote, third-party automation control devices using Telnet/UDP, and a powerfull and intuitive web server interface



Web Server Interface

of Any Size - up to 65,000 units



GEFEN. G GEFEN. GEFEN (G)

GEFEN (G)

EXT-WHD-1080P-SR

EXT-WHD-1080P-LR

NEW!

GEFEN

Wireless Extenders for HDMI

1080p Full HD

Wireless Extender for HDMI 5 GHz w/ Dual Inputs and Local Output - Long Range

Sends high definition audio and video to any HDTV display up to 100ft/30m

- Uncompressed A/V from source to display with less than 2 frames latency
- Transmits through walls and obstacles does not require line-of-sight
- Long Range performance makes it ideal for multi-room use
- Supports 7.1-channels of LPCM digital audio & 5.1 channels of Dolby® or DTS®
- 2 HDMI Inputs and a local HDMI output
- IR back channel for source control
- CEC pass-through
- Ideal for connection and control of 2 sources in a home theater installation
- Up to eight Senders can be accessed by one Receiver
- Compact Receiver unit with IR Extender module can be hidden away
- Flexible mounting options for Sender and Receiver
- Field updatable via USB port, using Gefen Syner-G™ software
- No set up required

NEW!

Wireless Extender for HDMI 5 GHz w/ Compact Sender - Short Range

Sends high definition audio and video to any HDTV display up to 30ft/10m

- Uncompressed A/V from source to display with less than 2 frames latency
- Transmits through obstacles, does not require line-of-sight
- Supports 7.1-channels of LPCM digital audio & 5.1 channels of Dolby® or DTS®
- Small form factor Sender connects directly to the HDMI port
- Sender can be powered from any USB port or the included power supply
- Ideal for temporary connection of mobile devices, laptops, cameras, etc.
- Up to eight Senders can be accessed by one Receiver
- Compact Receiver with IR Extender can be hidden away
- Flexible mounting optiions for Receiver unit
- Field updatable via USB port, using Gefen Syner-G™ software
- No set up required



GTV-WHD-60G

Wireless Extender for HDMI 60 GHz High Resolution - In-Room solution

Sends high definition audio and video to any HDTV display up to 30ft/10m

- Uncompressed A/V from source to display with less than 1 frame latency
- Supports HBR (High Bit Rate) Dolby® TrueHD, DTS-HD Master Audio™, and LPCM digital audio streams up to 7.1 channels
- Specifically designed for in-room operation only and near zero latency great for high-end home theater, gaming, and secure environments • Operates in the uncluttered 60 GHz frequency region, minimizing possible
- interference from WiFi and household appliances such as cordless phones
- CEC pass-through
- Compact Sender and Receiver units for easy installation
- Field updatable via USB port
- No set up required

visit gefen.com for product specs and features

Features and specifications are subject to change without notice.

Gefen, LLC is not responsible for typographical errors.

All trademarks and registered trademarks are the property of their respective owners.

Copyright© 2015 Gefen LLC

Version: A2

visit gefen.com for product specs and features

Features and specifications are subject to change without notice. Gefen, LLC is not responsible for typographical errors.

All trademarks and registered trademarks are the property of their respective owners.

Copyright© 2015 Gefen LLC

Version: A2

Contents

Matrix and Switcher Solutions	1-13
KVM and Video over IP Extension	14-18
Extenders	19-31
Wireless Extenders for HDMI	
Splitters	39-45
Scalers/Converters	46-56
Multi-Format Processor.	57-59
Multiview Switcher	60-62
Full Product Catalog	

Detailed product information is available at www.gefen.com

HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing in the United States and other countries. Dolby, Pro Logic and the double-D symbol are registered trademarks of Dolby Laboratories.

Copyright © 2015 Gefen LLC All trademarks are the property of their respective companies.

Gefen assumes no responsibility for any inaccuracies that may be contained in this catalog. In no event will Gefen LLC be liable for direct, indirect, special, incidental, or consequential damages resulting from any defect or omission in this catalog, even if advised of the possibility of such damages.



Products available for Gefen Custom Install Partners



Matrix and Switcher Solutions





4K Ultra HD 8x8 Matrix for HDMI w/ HDCP 2.2









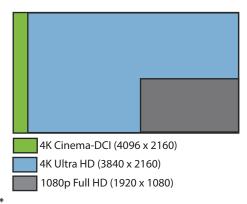








The Gefen 4K Ultra HD 8x8 Matrix for HDMI routes eight 4K sources to any combination of up to eight 4K displays. Resolutions up to 4K Cinema-DCI (4096 x 2160 at 24 or 30 Hz 4:4:4) and 4K Ultra HD (3860 x 2160 at 60 Hz, 4:2:0 or 30Hz 4:4:4) are supported. This product is compliant with the latest HDCP 2.2 protocol as well as HDCP 1.4. The Gefen 8x8 Matrix also supports 1080p Full HD, 1920 x 1200 (WUXGA), 3DTV, and Deep Color (up to 1080p resolution). Multichannel digital audio including 7.1 channels of LPCM and HBR (High Bit Rate) digital audio formats such as Dolby® TrueHD and DTS-HD Master Audio™ are also passed through. The Gefen Syner-G™ software's Discovery and Show-Me features simplify initial IP configuration. Each source can be routed to any or all displays, using the front-panel push buttons or the included handheld IR Remote Control. The matrix can also be controlled via RS-232, Telnet, UDP, and Gefen's intuitive and easy-to-use web server interface. An easy-to-read, super-bright OLED front panel display indicates routing status and IP settings.



Features*

- Routes eight 4K sources to eight displays
- Supports resolutions up to 4K Cinema-DCI (4096 x 2160 at 24 or 30 Hz), 4K Ultra HD (3860 x 2160 at 60 Hz, 4:2:0 color space),1080p Full HD, and 1920x1200 WUXGA
- HDCP 2.2 and 1.4 compliant
- Supports 12-bit Deep Color (up to 1080p Full HD)
- 3D pass-through
- Lip Sync pass-through
- Push button controls for Routing and Status
- Advanced EDID Management for rapid integration of sources and displays
- Supports LPCM 7.1, Dolby® TrueHD, Dolby Digital® Plus, and DTS-HD Master Audio™
- Supports the use of DVI sources and DVI displays with HDMI-to-DVI adapters (not included)
- RS-232 Serial interface for use with an automation control system
- IP control via Telnet, UDP, and the built-in web server interface
- IR remote control
- Gefen Syner-G[™] software's Discovery and Show-Me features simplify initial IP configuration
- Field-upgradeable firmware via web server interface
- Can be placed on a shelf or mounted in a standard 19-inch wide rack

- Maximum Pixel Clock: 300 MHz
- HDMI Input Connectors: (8) Type A 19-pin female, locking
- HDMI Output Connectors: (8) Type A 19-pin female, locking
- RS-232 serial port: (1) DB-9, female
- Ethernet (IP Control) Port: (1) RJ-45
- Display: OLED, 2 rows, 20 characters per row
- Power Button/Indicator: (1) tact-type, bi-color blue/orange backlight
- Control Buttons/Indicators: (7) tact-type, blue backlight
- IR Sensor: (1), located on front panel
- IR In/Ext Port: (1) 3.5mm mini-stereo jack
- IR Extender type: EXT-RMT-EXTIRN (not included)
- DC Power Connector: (1) 4-pin, locking
- Power Supply: 24V DC
- Power Consumption: 39W maximum
- Operating Temperature: +32 to +122 °F (0 to +50 °C)
- Operating Humidity: 5% to 90% RH, non-condensing
- Storage Temperature: -4 to +140 °F (-20 to +60 °C)
- Storage Humidity: 5% to 95% RH, non-condensing
- MTBF: 50000 hours
- Rack mounting requirements: Standard 19" rack, 2U high
- Dimensions (excluding rack ears and connectors, W x H x D):
 - 17.25" x 3.5" x 15.75" (440mm x 89mm x 400mm)
- Net Unit Weight: 20 lbs. (9.0 kg)
- Shipping Weight: 28 lbs. (12.75 kg)







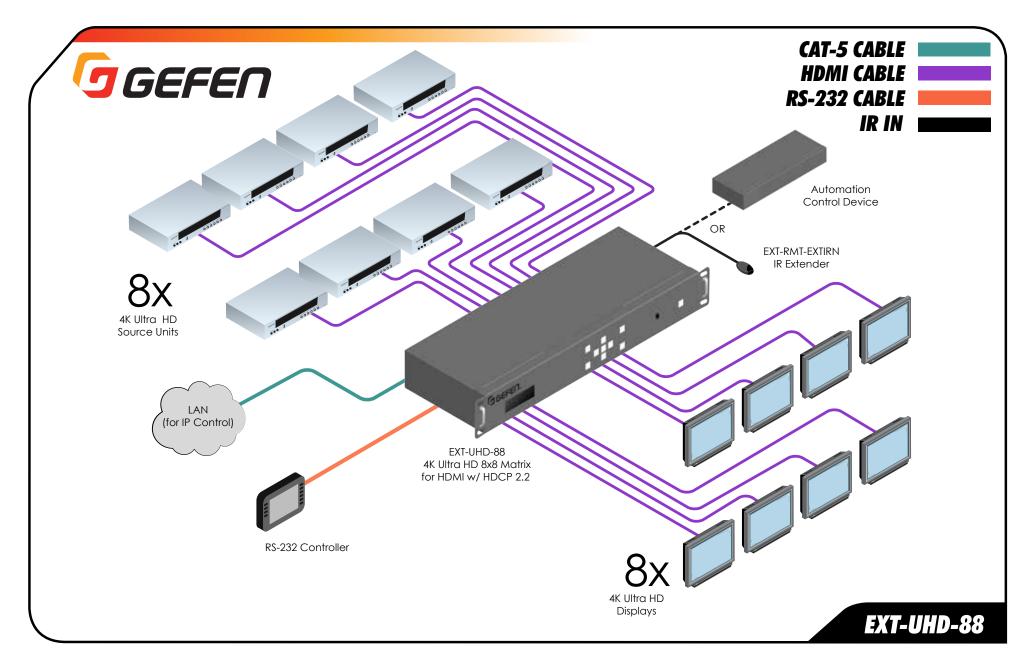














Ultra HD 4x2 Matrix for HDMI









1080p

1080

Route four Hi-Def sources to two Ultra HD displays with FST, 3DTV, and 4K x 2K Ultra High-Definition support

The GefenToolBox 4x2 Matrix for HDMI 4K x 2K is a compact and lightweight alternative to rack-mounted matrixes. It allows up to four Ultra High Definition 4K or 1080p Full HD sources to be routed to up to two Ultra HD displays. This product supports resolutions up to 4K (3840 x 2160 @ 60Hz 4:2:0 or 30Hz 4:4:4) and 4K Cinema (DCI) (4096 x 2160 @ 24 or 30Hz 4:4:4). HDCP, Deep Color, 3DTV pass-through, and lossless audio formats such as LPCM 7.1, Dolby® TrueHD, and DTS-HD Master Audio™ are also supported. Each Hi-Def source can be routed to either of the connected displays using the front panel push-button controls, the included IR remote, RS-232 serial control interface, or through IP, using Telnet, UDP, and the built-in web server interface. LED indicators on the top panel display the current routing status, FST mode, audio configuration, and EDID settings.

Fast Switching Technology (FST) is a Gefen software implementation for HDMI products. FST eliminates the lengthy HDMI authentication process, and allows connecting/disconnecting or turning ON / OFF of HDTV displays without having these activities affect other displays in the same distribution system.

Connect up to four Ultra Hi-Def sources to the HDMI inputs on the matrix using HDMI cables. Connect up to two Ultra HD displays to the HDMI outputs. Connect an Ethernet cable from the network to the RJ-45 connector to use the built-in web server or Telnet/UDP capability to control routing, EDID management, and other functions. Connect an RS-232 cable between an automation control device such as Gefen EXT-PACS and GTB-MINI-PACS and the matrix. Connect the included locking power supply to the matrix and to an available electrical outlet. Apply power to the sources and displays. The HD sources can now be routed to the displays using the front panel push-buttons, IR remote control, RS-232, Telnet, UDP, or web server 2160 interface.













GTB-HD4K2K-442-BLK

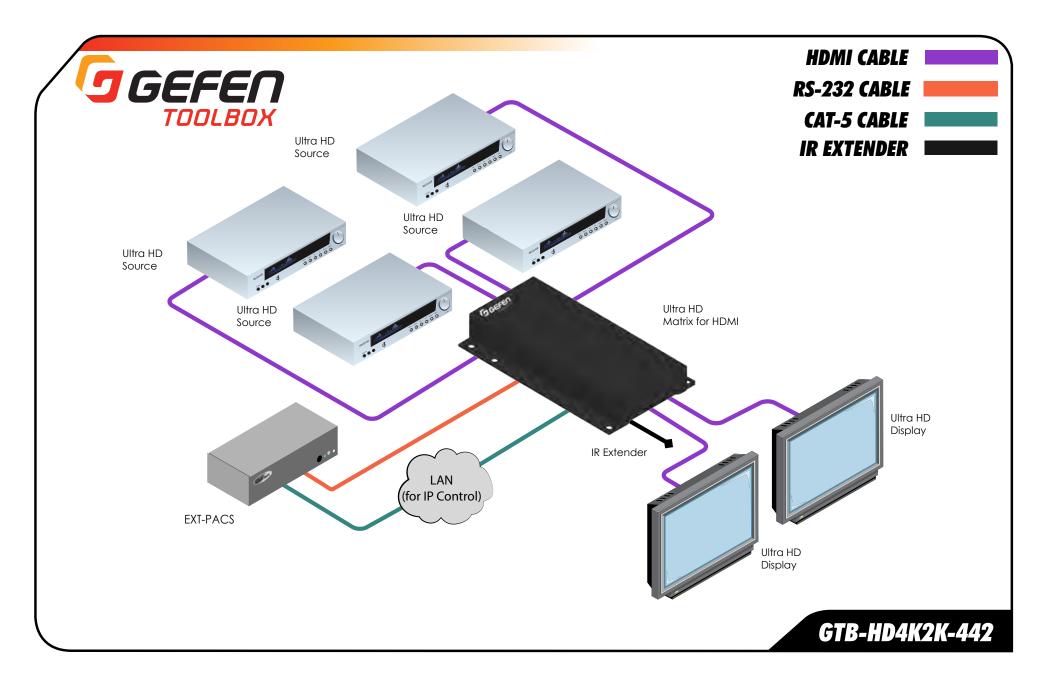
- Routes four Ultra Hi-Def sources to two Ultra HD displays
- Supports resolutions up to Ultra HD 4K (3840 x 2160 @ 60Hz 4:2:0 or 30Hz 4:4:4), 4K Cinema (DCI) @ 24 or 30Hz 4:4:4), and 1080p Full HD

4K Ultra HD

- HDMI 2.0 compliant
- HDCP 1.4 compliant
- Supports 12-bit Deep Color (up to 1080p Full HD)
- 3DTV pass-through
- Lip Sync pass-through
- Push button controls for Routing, FST Modes, Audio, and EDID management
- FST Technology speeds up HDCP authentication process
- Advanced EDID Management for rapid integration of sources and displays
- Supports LPCM 7.1, Dolby® TrueHD, Dolby® Digital Plus, and DTS-HD Master Audio™ Supports the use of DVI sources and DVI displays with HDMI-to-DVI adapters (not included)
- RS-232 Serial interface for remote control via a computer or automation control system
- IP control via Telnet, UDP, and the built-in web server interface
- IR remote control
- Field-upgradeable firmware via Mini-USB and IP ports
- · Locking Power Supply
- Surface-mountable

- Maximum Pixel Clock: 300 MHz
- HDMI Input Connectors: (4) Type A 19-pin female, locking HDMI Output Connectors: (2) Type A 19-pin female, locking
- USB Port: (1) Mini-B
- RS-232 serial port: (1) DB-9, female • Ethernet (IP Control) Port: (1) RJ-45
- FST Selector: (1) tact-type, recessed push-button
- Audio Selector: (1) tact-type, recessed push-button
- EDID Selector: (1) tact-type, recessed push-button
- Routing Selectors: (2) tact-type push-buttons • Power Indicator: (1) LED, blue
- FST Indicators: (2) LED, green
- Audio Indicators: (2) LED, green
- EDID Indicators: (3) LED, green
- · Routing Indicators: (8) LED, green
- IR Sensor: (1), on front panel
- IR Extender Port: (1) 3.5mm mini-stereo jack DC Power Connector: (1) Locking type
- Power Supply: 5V DC
- Power Consumption: 13 Watts (max.)
- Operating Temperature: +32 to 104 °F (0 to +40 °C)
- Dimensions (W x H x D): 6.9" x 5.8" x 1.0" (175mm x 147mm x 26mm)
- Shipping Weight: 5 lbs. (2.3 kg)







Ultra HD 4x4 Matrix for HDMI









1920

1080p

Route four Hi-Def sources to four Ultra HD displays with FST, 3DTV, and 4K x 2K Ultra High-Definition support

The GefenToolBox 4x4 Matrix for HDMI 4K x 2K is a compact and lightweight alternative to rack-mounted matrixes. It allows up to four Ultra High Definition 4K or 1080p Full HD sources to be routed to up to four Ultra HD displays. This product supports resolutions up to 4K (3840 x 2160 @ 60Hz 4:2:0 or 30Hz 4:4:4) and 4K Cinema (DCI) (4096 x 2160 @ 24 or 30Hz 4:4:4). Deep Color, 3DTV pass-through, and lossless audio formats such as LPCM 7.1, Dolby® TrueHD, and DTS-HD Master Audio™ are also supported. Each Ultra Hi-Def source can be routed to any of the connected displays using the front panel push-button controls, the included IR remote, RS-232 serial control interface, or through IP, using Telnet, UDP, and the built-in web server interface. LED indicators on the top panel display the current routing status, FST mode, audio configuration, and EDID settings.

Fast Switching Technology (FST) is a Gefen software implementation for HDMI products. FST eliminates the lengthy HDMI authentication process, and allows connecting/disconnecting or turning ON / OFF of HDTV displays without having these activities affect other displays in the same distribution system.

How It Works

Connect up to four Ultra Hi-Def sources to the HDMI inputs on the matrix, using HDMI cables. Connect up to four Ultra HD displays to the HDMI outputs. Connect an Ethernet cable from the network to the RJ-45 connector to use the built-in web server or Telnet/UDP capability to control routing, EDID management, and other functions. Connect an RS-232 cable between an automation control device such as Gefen EXT-PACS or GTB-MINI-PACS and the matrix. Connect the included locking power supply to the matrix and to an available electrical outlet. Apply power to the sources and displays. The HD sources can now be routed to the displays using the front panel push-buttons, IR remote control, RS-232, Telnet, UDP, or web server













GTB-HD4K2K-444-BLK

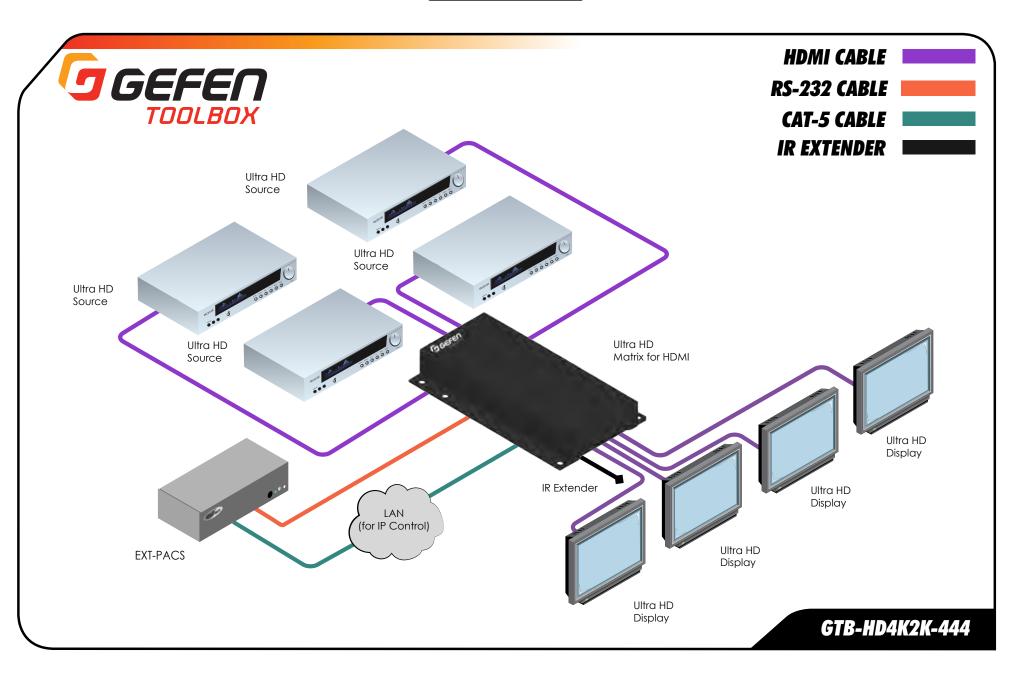
- Routes four Ultra Hi-Def sources to four Ultra HD displays
- Supports resolutions up to Ultra HD 4K (3840 x 2160 @ 60Hz 4:2:0 or 30Hz 4:4:4), 4K Cinema (DCI) @ 24 or 30Hz 4:4:4), and 1080p Full HD

4K Ultra HD

- HDMI 2.0 compliant
- HDCP 1.4 compliant
- Supports 12-bit Deep Color (up to 1080p Full HD)
- 3DTV pass-through
- Lip Sync pass-through
- Push button controls for Routing, FST Modes, Audio, and EDID management
- FST Technology speeds up HDCP authentication process
- · Advanced EDID Management for rapid integration of sources and displays
- Supports LPCM 7.1, Dolby® TrueHD, Dolby Digital® Plus, and DTS-HD Master Audio™ • Supports the use of DVI sources and DVI displays with HDMI-to-DVI adapters (not included)
- RS-232 Serial interface for remote control via a computer or automation control system
- IP control via Telnet, UDP, and the built-in web server interface
- IR remote control
- Field-upgradeable firmware via Mini-USB and IP ports
- Locking Power Supply
- Surface-mountable

- Maximum Pixel Clock: 300 MHz
- HDMI Input Connectors: (4) Type A 19-pin female, locking
- HDMI Output Connectors: (4) Type A 19-pin female, locking
- USB Port: (1) Mini-B
- RS-232 serial port: (1) DB-9, female
- Ethernet (IP Control) Port: (1) RJ-45
- Power Indicator: (1) LED, blue
- FST Indicators: (2) LED, green
- Audio Indicators: (2) LED, green
- EDID Indicators: (3) LED, green • Routing Indicators: (16) LED, green
- FST Selector: (1) tact-type, recessed push-button • Audio Selector: (1) tact-type, recessed push-button
- EDID Selector: (1) tact-type, recessed push-buttons
- Routing Selectors: (4) tact-type push-buttons
- IR Sensor: (1), on front panel
- IR Extender Port: (1) 3.5mm mini-stereo jack
- DC Power Connector: (1) Locking type
- Power Supply: 5V DC
- Power Consumption: 13 Watts (max.)
- Operating Temperature: +32 to 104 °F (0 to +40 °C)
- Dimensions (W x H x D): 6.9" x 11.9" x 1.0" (175mm x 302mm x 26mm)
- Shipping Weight: 6 lbs. (2.7 kg)







Ultra HD 6x2 Matrix for HDMI









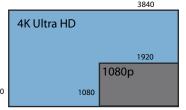
Route six Hi-Def sources to two displays with FST, 3DTV, and Ultra HD 4K x 2K support

The GefenToolBox 6x2 Matrix for HDMI 4K x 2K is a compact and lightweight alternative to rack-mounted matrixes. It allows up to six Ultra High Definition 4K or 1080p Full HD sources to be routed to up to two Ultra HD displays. This product supports resolutions up to 4K (3840 x 2160 @ 60Hz 4:2:0 or 30Hz 4:4:4) and 4K Cinema (DCI) (4096 x 2160 @ 24 or 30Hz 4:4:4). Deep Color, 3DTV pass-through, and lossless audio formats such as LPCM 7.1, Dolby® TrueHD, and DTS-HD Master Audio are also supported. In addition to through HDMI, digital audio can also be outputted via the two TOSLINK® optical connectors for use with digital audio processors. Each Ultra Hi-Def source can be routed to either of the connected displays using the front panel push-button controls, the included IR remote, RS-232 serial control interface, or through IP, using Telnet, UDP, and the built-in web server interface. LED indicators on the top panel display the current routing status, FST mode, audio configuration, and EDID settings.

Fast Switching Technology (FST) is a Gefen software implementation for HDMI products. FST eliminates the lengthy HDMI authentication process, and allows connecting/disconnecting or turning ON / OFF of HDTV displays without having these activities affect other displays in the same distribution system.

How It Works

Connect up to six Ultra Hi-Def sources to the HDMI inputs on the matrix using HDMI cables. Connect up to two Ultra HD displays to the HDMI outputs. Using TOSLINK cables, connect up to two A/V Receivers to the Optical outputs. Connect an Ethernet cable from the network to the RJ-45 connector to use the built-in web server or Telnet /UDP capability to control routing, EDID management, and other functions. Connect an RS-232 cable between an automation control device such as Gefen EXT-PACS and GTB-MINI-PACS and the matrix. Connect the included locking power supply to the matrix and to an available electrical outlet. Apply power to the source and displays. The HD sources can now be routed to the displays using the front panel push-buttons, IR remote control, RS-232, Telnet, UDP, or web server interface.











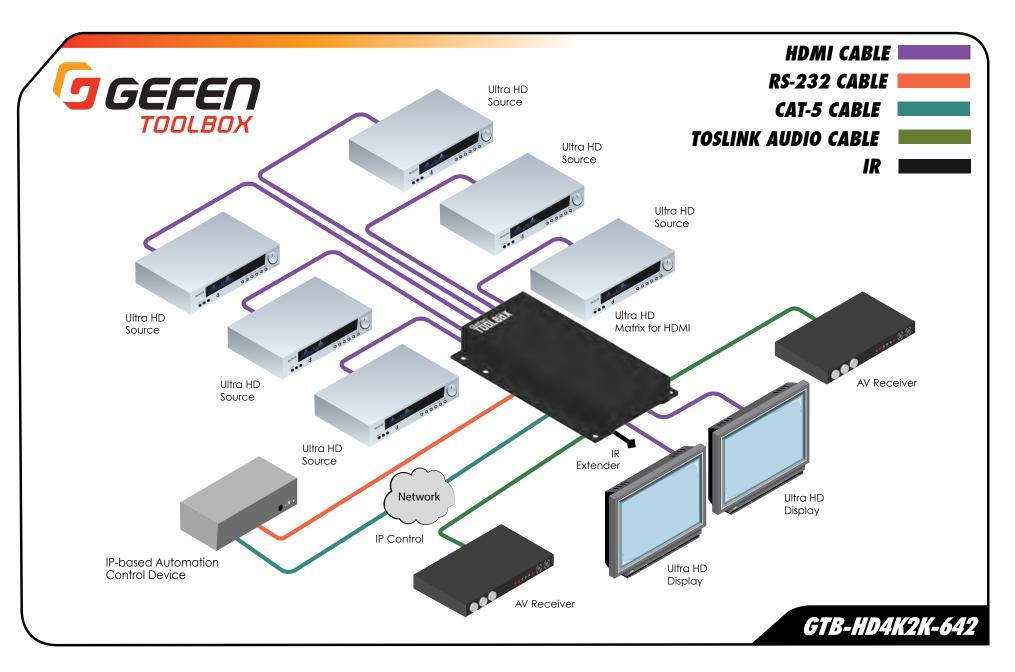


GTB-HD4K2K-642-BLK

- Routes six Ultra Hi-Def sources to two Ultra HD displays
- Supports resolutions up to Ultra HD 4K (3840 x 2160 @ 60Hz 4:2:0 or 30Hz 4:4:4), 4K Cinema (DCI) (4096 x 2160 @ 24 or 30Hz 4:4:4), and 1080p Full HD
- HDMI 2.0 compliant
- HDCP 1.4 compliant
- Supports 12-bit Deep Color (up to 1080p Full HD)
- 3DTV pass-through
- Lip Sync pass-through
- Push button controls for Routing, FST Modes, Audio, and EDID management
- FST Technology speeds up HDCP authentication process
- Advanced EDID Management for rapid integration of sources and displays Supports LPCM 7.1, Dolby® TrueHD, and DTS-HD Master Audio™
- Supports the use of DVI sources and DVI displays with HDMI-to-DVI adapters (not included)
- RS-232 Serial interface for remote control via a computer or automation control system
- IP control via Telnet, UDP, and the built-in web server interface
- IR remote control
- Field-upgradeable firmware via Mini-USB and IP ports
- Locking Power Supply
- Surface-mountable

- Maximum Pixel Clock: 300 MHz
- HDMI Input Connectors: (6) Type A 19-pin female, locking
- HDMI Output Connectors: (2) Type A 19-pin female, locking
- Digital Audio Outputs: (2) TOSLINK®
- USB Port: (1) Mini-B
- RS-232 serial port: (1) DB-9, female
 Ethernet (IP Control) Port: (1) RJ-45 jack
- FST Selector: (1) tact-type, recessed push-button Audio Selector: (1) tact-type, recessed push-button
- EDID Selector: (1) tact-type, recessed push-button
- Routing Selectors: (2) tact-type push-buttons
 Power Indicator: (1) LED, blue
- FST Indicators: (2) LED, green
- Audio Indicators: (2) LED, green
- EDID Indicators: (3) LED, green
- Routing Indicators: (12) LED, green
- IR Sensor: (1), on front panel
- IR Extender Port (Receiver): (1)3.5mm mini-stereo jack
- DC Power Connector: (1) Locking type
- Power Supply: 5V DC Power Consumption: 20 Watts (max.)
- Operating Temperature: +32 to 104 °F (0 to +40 °C)
- Dimensions (W x H x D): 6.9" x 11.9" x 1.0" (175mm x 301mm x 26mm)
- · Shipping Weight: 6 lbs. (2.7 kg)







4K Ultra HD 8x8 Matrix for HDMI



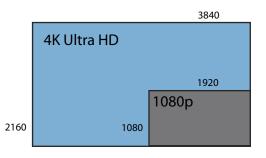




Route eight 4K Ultra HD sources to eight displays with HDCP. 3DTV, and 7.1 channel LPCM and HBR Audio support

The Gefen ToolBox 8x8 Matrix is a compact and lightweight alternative to rack-mounted matrixes. This HDCP 1.4 compliant matrix routes eight Ultra HD sources to any eight 4K Ultra HD displays with HDMI inputs. Resolutions up to 4K DCI (4096 x 2160 at 24 or 30 Hz 4:4:4), 4K Ultra HD (3860 x 2160 at 60 Hz, 4:2:0 or 30Hz 4:4:4), 1080p Full HD, and 1920x1200 (WUXGA) are supported. 3D, Deep Color, and multichannel digital audio including 7.1 channels of LPCM and HBR (High Bit Rate) formats such as Dolby®TrueHD, and DTS-HD Master Audio™ are also passed through. The Gefen Syner-G™ software's Discovery and Show-Me features simplify initial IP configuration of this matrix. Each source can be routed to any display location, using the front-panel push buttons or the included handheld IR Remote Control. The matrix can also be controlled via RS-232, Telnet, UDP, and Gefen's intuitive and easy-to-use web server interface. An easy-to-read backlit front panel display indicates the current routing status and IP settings.

Use HDMI cables to connect up to eight sources with HDMI outputs to the inputs of the matrix. Connect up to eight displays with HDMI inputs to the outputs of the matrix, using HDMI cables. Connect an Ethernet cable from the network to the RJ-45 connector to use the built-in web server or Telnet/UDP capability to control routing, EDID management, and other functions. Connect an RS-232 cable between an automation control device and the matrix. Connect the included power supply to the 24V DC connector on the matrix. Plug the IEC AC power cord to the power supply and to an available AC outlet. To control the matrix via IR, point the included IR remote towards the display of the unit. If matrix is not located in the line of sight of the handheld remote, attach a Gefen EXT-RMT-EXTIRN IR Extender to the IR Ext port of the matrix and install it in a location where it can receive the IR commands. If this matrix is going to be part of an IP-controlled infrastructure, use Gefen Syner-G™ to perform the initial IP configuration and setup.















Features*

- Routes eight 4K Ultra HD sources to eight displays
- Supports resolutions up to 4K (DCI) (4096 x 2160 @ 24 or 30Hz 4:4:4), 4K Ultra HD (3860 x 2160 @ 60 Hz 4:2:0 or 30Hz 4:4:4), 1080p Full HD, and 1920x1200 (WUXGA)
- · HDCP 1.4 compliant
- Supports 12-bit Deep Color (up to 1080p Full HD)
- 3D pass-through
- Lip Sync pass-through
- Push button controls for Routing and Status
- Advanced EDID Management for rapid integration of sources and displays
- Supports LPCM 7.1, Dolby® TrueHD, Dolby Digital® Plus, and DTS-HD Master Audio™ • Supports the use of DVI sources and DVI displays with HDMI-to-DVI adapters (not included)
- RS-232 Serial interface for remote control via a computer or automation control system
- IP control via Telnet, UDP, and the built-in web server interface
- IR remote control
- ullet Gefen Syner- $G^{\text{\tiny{TM}}}$ software's Discovery and Show-Me features simplify initial IP configuration • Field-upgradeable firmware via web server interface
- Surface-mountable

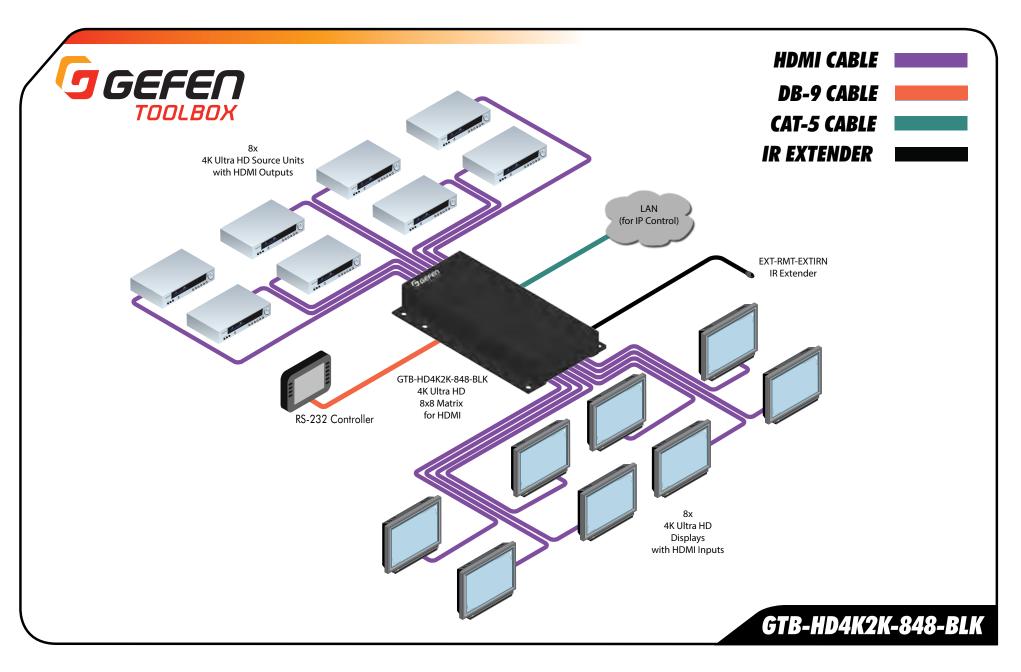
Specifications*

- Maximum Pixel Clock: 300 MHz
- HDMI Input Connectors: (8) Type A 19-pin female, locking
- HDMI Output Connectors: (8) Type A 19-pin female, locking
- USB Port: (1) Mini-B
- RS-232 serial port: (1) DB-9, female
- Ethernet (IP Control) Port: (1) RJ-45
- Power Indicator: (1) LED, bi-color (red/green)
- Lock Indicator: (1) LED, (orange)
- · Display: 2 rows, 16 characters per row
- Control Buttons: (7) tact-type
- IR Sensor: (1), located on front panel • IR Extender Port: (1) 3.5mm mini-stereo jack
- IR Extender type: EXT-RMT-EXTIRN (not included)
- DC Power Connector: (1) 4-pin
- Power Supply: 24V DC
- Power Consumption: 27W maximum
- Operating Temperature: +32 to +122 °F (0 to +50 °C)
- Operating Humidity: 5% to 90% RH, non-condensing
- Storage Temperature: -4 to +140 °F (-20 to +60 °C) • Storage Humidity: 5% to 95% RH, non-condensing
- Dimensions (excluding connectors, W x H x D): 9.3" x 17.9" x 1.75"

(236mm x 454mm x 44mm)

• Net Unit Weight: 3.9 lbs. (1.8 kg)





4K Ultra HD

8x8 Matrix

for HDM

GTB-HD4K2K-848-BLK

GGEFEN



Ultra HD 4x1 Switcher for HDMI









Switch four Hi-Def sources to one Ultra HD display with 3DTV and 4K x 2K Ultra High-Definition support

The GefenToolBox 4x1 Switcher for HDMI 4K x 2K is a compact and lightweight alternative to rack-mounted matrixes. It allows up to four Ultra High Definition 4K or 1080p Full HD sources to be routed to one Ultra HD display. This product supports resolutions up to 4K (3840 x 2160 @ 60Hz 4:2:0) and 4K Cinema (DCI) (4096 x 2160 @ 24 or 30Hz 4:4:4). HDCP, Deep Color, 3DTV pass-through, and lossless audio formats such as LPCM 7.1, Dolby® TrueHD, and DTS-HD Master Audio™ are also supported. Each Ultra Hi-Def source can be switched to the display using the front panel push-button control, the included IR remote, RS-232 serial control interface, or through IP, using Telnet, UDP, and the built-in web server interface. LED indicators on the top panel display the current switching status.

How It Works

Connect up to four Ultra Hi-Def sources to the HDMI inputs on the switcher using HDMI cables. Connect an Ultra HD display to the HDMI output. Connect an Ethernet cable from the network to the RJ-45 connector to use the built-in web server or Telnet/UDP capability to control switching. Connect an RS-232 cable between an automation control device such as Gefen EXT-PACS or GTB-MINI-PACS and the switcher. Connect the included locking power supply to the switcher and to an available electrical outlet. Apply power to the sources and display. The Ultra HD sources can now be routed to the display using the front panel push-button, IR remote control, RS-232, Telnet, UDP, or web server interface.



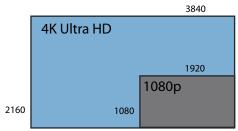








GTB-HD4K2K-441-BLK



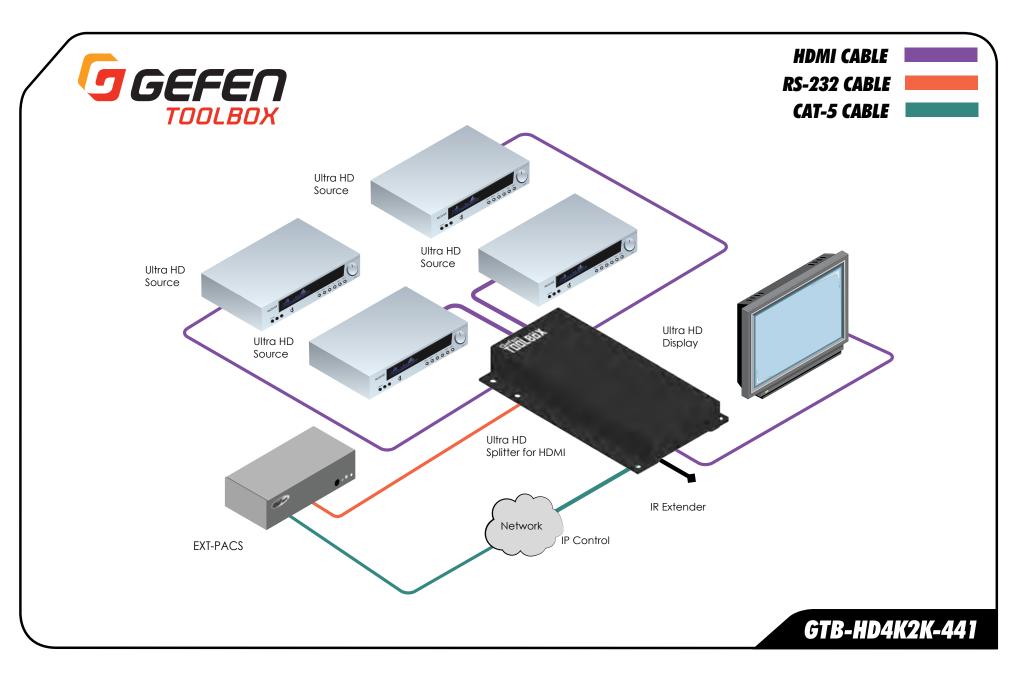
Features*

- Switches between four Ultra Hi-Def sources to one Ultra HD display
- Supports resolutions up to Ultra HD 4K (3840 x 2160 @ 60Hz 4:2:0 or 30Hz 4:4:4), 4K Cinema (DCI) @ 24 or 30Hz 4:4:4), and 1080p Full HD
- HDMI 2.0 compliant
- HDCP 1.4 compliant
- Supports 12-bit Deep Color (up to 1080p Full HD)
- 3DTV pass-through
- Lip Sync pass-through
- Push button control for routing sources to display

 Supports LPCM 7.1, Dolby® TrueHD, Dolby Digital® Plus, and
- DTS-HD Master Audio™ • Supports the use of DVI sources and DVI displays with HDMI-to-DVI adapters
- RS-232 Serial interface for remote control via a computer or automation control system
- IP control via Telnet, UDP, and the built-in web server interface
- IR remote control
- IR Extender port allows the unit to be mounted in a hidden location
- Field-upgradeable firmware via Mini-USB and IP ports
- Locking Power Supply
- Surface-mountable

- Maximum Pixel Clock: 300 MHz
- HDMI Input Connectors: (4) Type A 19-pin female, locking
- HDMI Output Connector: (1) Type A 19-pin female, locking
- USB Port: (1) Mini-B
- RS-232 serial port: (1) DB-9, female
- Ethernet (IP Control) port: (1) RJ-45
- Switching Selector: (1) tact type push-button
- Switching Indicators: (4) LED, green
- Power Indicator: (1) LED, blue
- IR Sensor: (1), on front panel
- IR Extender Port (Receiver): (1) 3.5mm mini-stereo jack
- DC Power Connector: (1) Locking type
- Power Supply: 5V DC
- Power Consumption: 13 Watts (max.)
- Operating Temperature: +32 to 104 °F (0 to +40 °C)
- Dimensions (W x H x D): 6.9" x 5.8" x 1.0" (175mm x 147mm x 26mm)
- Shipping Weight: 4 lbs. (1.8 kg)





KVM and Video Over IP Extension





HDMI, RS-232, and Bi-Directional IR Extender over IP

Extend and Distribute HDMI, RS-232, and 2-way IR over a Local Area Network

The HD over IP w/ RS-232 and 2-way IR extends HDMI, RS-232, and bi-directional IR over a Gigabit Local Area Network. Resolutions up to 1080p Full HD and 1920 x 1200 (WUXGA), HDCP, Deep Color, 7.1 channel High Bit Rate digital audio, and Lip-Sync pass-through are supported. The Sender and Receiver units can be automatically or manually configured to unique IP addresses to allow the connection of multiple Senders and Receivers to the same network. Multiple Receiver units can simultaneously connect to any Sender unit within the network including the Gefen KVM over LAN products with HDMI, DVI, or VGA video, to create a virtual crosspoint matrix of just over 65,000 Sender and Receiver units total, depending on the network bandwidth and number of ports on the network switch (see Notes 1 and 2).

IR control can be extended from Sender to Receiver and from Receiver to Sender, allowing the control of source units and displays remotely. The IR input ports on Sender and Receiver units can accommodate both the Gefen powered IR extender EXT-RMT-EXTIRN and electrical IR from automation control devices. RS-232 serial control can also be extended between each Sender and Receiver unit. The built-in web server interface makes control, set-up, and configuration simple and intuitive. When using multiple Senders and Receivers as a "Virtual Matrix", you can connect to any of the Senders within the network by accessing the web interface of each Receiver unit via a web browser on a mobile device or computer, or by using the Gefen KVM/Video over IP Keyboard Switching Controller software (available for download at www.gefen.com). The Gefen HD over IP extender is the perfect solution for large scale remote HD content access and digital signage applications.

How It Works

If you will be connecting multiple Sender units, use the built-in web interface to assign a unique channel ID to each unit. Use the included HDMI cable to connect an HDMI source to the Sender's HDMI input. Using the included mini-phone-plug-to-female-DB-9 adaptor, connect a DB-9 male-to-female RS-232 cable from the Sender unit to an automation control device. If IR extension between the local and remote locations to control the source and the display is needed, connect IR emitters (Gefen part no. EXT-IREMIT) (one included with Sender unit) to the Sender and Receiver units' IR Out ports and attach them to the IR sensor lenses of the source and the display. Connect IR extenders (Gefen part no. EXT-RMT-EXTIRN) (one included with the Receiver unit) or electrical IR outputs from automation control devices to the IR In/Ext ports of the Sender and Receiver units. Using an HDMI cable, connect the HDMI output of the Receiver unit to your display. Using the included mini-phone-plug-tomale-DB-9 adaptor, connect another male-to-female DB-9 cable from the Receiver unit to the display or another RS-232 controlled device. Connect the Sender and Receiver units to each other directly or through a Gigabit Ethernet switch, using CAT-5e or better cables. Each cable run can be up to 330 feet (100 meters) in length. Connect the included 5V power supplies to the Sender and Receiver units and to available electrical outlets. Power-on all associated equipment. Use the Mode selector within the web interface to optimize the picture for sharper still images or smoother video motion.

NOTES:

- A Gigabit switch is required. The Gigabit switch must support 8k jumbo frame packets in order for multicast mode to operate. If your LAN is not dedicated to Gefen KVM-LAN products exclusively, then a managed switch is highly recommended.
- 2. When using HDCP-encrypted content, only HDMI Senders and Receiver units can accept and display the content.















EXT-HD2IRS-LAN-TX

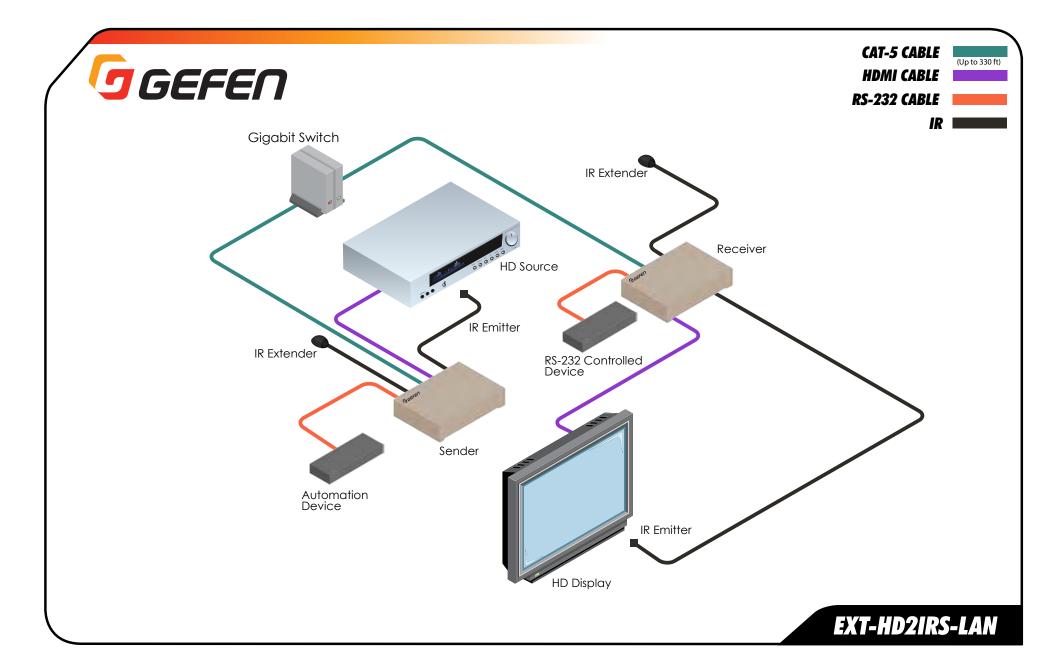
EXT-HD2IRS-LAN-RX

Features'

- Extends HDMI, RS-232, and bi-directional IR over IP, using a Gigabit Local Area Network
- Supports resolutions up to 1080p Full HD and 1920 x 1200 (WUXGA)
- Supported HDMI Features:
- HDCP
- Deep Color
- LPCM 7.1 audio, Dolby® TrueHD, and DTS-HD Master Audio™
- Lip-Sync pass-through
- · Built-in web interface facilitates intuitive set up and operation
- Any of the Senders within a network can be accessed by any Receiver unit via a web browser on a mobile device or computer, or by using the Gefen KVM/Video over IP Keyboard Switching Controller software (available for download at www.gefen.com)
- Supports a total of just over 65,000 Sender and Receiver units, depending on the network bandwidth and number of ports on your network switchh
- Mode Selector function in web interface for sharpness or motion-optimization of image
 Managinal IR In 16th and a web with a sweet of Color IR webstern and all attical IR force.
- Versatile IR In/Ext ports work with powered Gefen IR extenders and electrical IR from automation control devices
- Field-upgradable firmware via web server interface
- Locking power supply connectors
- RS-232 3.5mm mini-stereo-plug-to-DB-9 adaptors included
- Surface mountable

Specifications*

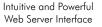
- Maximum Pixel Clock: 165 MHz
- Maximum TMDS Clock: 225 MHz
- Video Input Connector (Sender): (1) HDMI Type A 19-pin, female, locking
- Video Output Connector (Receiver): (1) HDMI Type A 19-pin, female, locking
- RS-232 ports (Sender/Receiver): (1) 3.5mm mini-stereo jack (DB-9 adaptors included)
- IR Emitter ports (Sender/Receiver): (1) 3.5mm mini-mono jack
- IR In/Extender ports (Sender/Receiver): (1) 3.5mm mini-stereo jack
- IR Extender type: EXT-RMT-EXTIRN
- Ethernet connectors (Sender/Receiver): (1) RJ-45, shielded
 Reset buttons (Sender/Receiver): (1) tact-type, recessed
- Link Indicator (Sender/Receiver): (1) LED, amber
- Power Indicator (Sender/Receiver): (1) LED, green
- Power Supply (Sender/Receiver): 5V DC, locking
- Power Consumption (Sender): 6W maximum
- Power Consumption (Receiver): 4W maximum
 Operating Temperature: 0 to +50 °C
- Operating Temperature: 0 to +30 °C • Operating Humidity: +10 to +90%, Relative Humidity, non-condensing
- Storage Temperature: -20 to +85 °C
- Storage Temperature: -20 to +85 °C
 Storage Humidity: 0 to +95%, Relative Humidity, non-condensing
- MTBF: 50000 hours
- Dimensions (Sender/Receiver) (W x H x D): 4.3'' x 1'' x 3.2'' (110mm x 26mm x 80mm)
- Unit Weight: EXT-HD2IRS-LAN-TX: 0.4 lbs. (0.2 kg)
- EXT-HD2IRS-LAN-RX: 0.4 lbs. (0.2 kg)
 Shipping Weight: EXT-HD2IRS-LAN-TX: 1.9 lbs. (0.9 kg)
 - EXT-HD2IRS-LAN-RX: 1.6 lbs. (0.7 kg)



15













EXT-CU-LAN

Configure, manage, and control a scalable and expandable virtual matrix using an assortment of Gefen Video and KVM over IP products

The EXT-CU-LAN Matrix Controller is a hardware platform designed to manage and control the Gefen family of Video and KVM over IP products in a virtual matrix environment. Its comprehensive and user-friendly interface can be accessed by any web-enabled device, including phones, tablets, and PCs. End-users can control matrix routing and access presets, no matter the size and complexity of the system. It also manages access to the AV network, providing two independent levels of security for administrators and end-users. Setup of the matrix system is simple and straightforward. All connected Gefen Video or KVM over IP products are automatically detected and configured as necessary. Its conventional front-panel layout includes push-buttons and a 40-character backlit display, dramatically reducing end-user learning curve by emulating a standard AV matrix. The EXT-CU-LAN has been designed to work in conjunction with the Gefen Syner-G[™] software, available from the Gefen website. Gefen Syner-G[™] simplifies discovery and IP configuration of this product. Once installed on a Local Area Network, the EXT-CU-LAN facilitates guick identification of all Gefen Video and KVM over IP devices that are on the network and assigns IP addresses to them. The Gefen Matrix Controller's unique enclosure shape provides flexible installation options. Its slanted front panel enhances user access to push-buttons and provides for better display readability when placed on a conference table. Its 2U tall enclosure and detachable rack ears facilitate installation in a standard 19-inch-wide equipment rack. In addition to its plethora of user control options via web-enabled handheld devices, front panel, and the included IR remote, this product features Telnet and UDP for integration into an automation control system. With applications ranging from broadcast, rental/staging, control rooms, security, digital signage, campus/education, to multi-room AV, the EXT-CU-LAN provides a complete and cost-effective solution for managing video and audio in classrooms, conference rooms, command centers, and as the backbone of any high performance system that needs to interface with multiple sources and displays, AV formats, and resolutions in a dynamic environment.

How It Works

If this product will be placed on a table or shelf, attach the included rubber feet to the bottom of the unit. If the unit is to be mounted in a standard 19-inch wide equipment rack, attach the two included rack-ears to the front sides of the unit, using the machine screws provided. The EXT-CU-LAN can be set up to manage a single LAN that includes control and AV routing devices, or a system with two independent Local Area Networks; one for system control and another for AV routing. It comes pre-configured to work with a single LAN (its "Network Mode" is set to "Combined"). If your system architecture calls for independent control and AV/KVM routing networks, the matrix controller needs to be set to "Separate" mode. When the EXT-CU-LAN is being used in single network mode, connect the LAN 1 port to the managed switch for this network. The LAN 1 port can also receive Power Over Ethernet (POE), alleviating the need to connect the external 5V DC power supply that ships with the product. If setting up a system with two independent Local Area Networks for system control and AV/KVM routing: Connect the LAN 1 port of the EXT-CU-LAN to the control network. Connect the Ethernet port called LAN 2 to the other Local Area Network that includes the Video/KVM over-IP Senders and Receivers. If POE is not available from the network that is connected to the LAN $1\,$ port, connect the included power supply to the 5V DC power supply jack and to an available electrical outlet. The Power LED will glow in blue and the display will turn on to indicate that the unit is receiving power.

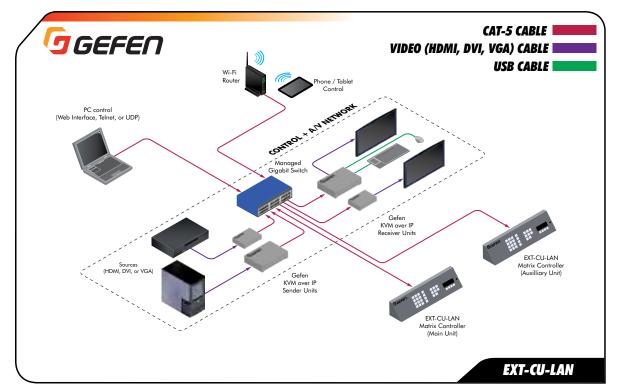


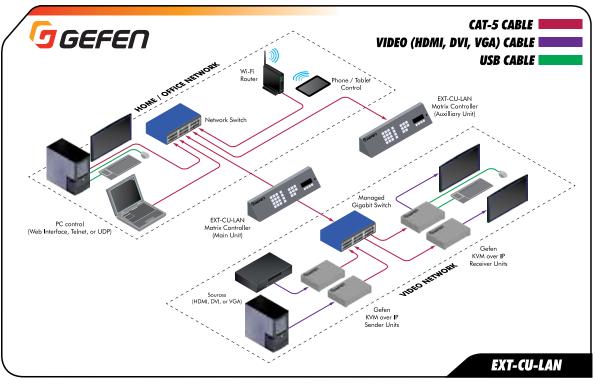
Features*

- Detects, configures, and controls all Gefen Video and KVM over IP products.
- Built-in web server allows access from any web-enabled device, including phones,
- Two Ethernet ports with independent IP and MAC Addresses allow segregation of Video/KVM LAN and control LAN, and help provide separate security layers for
- administrators and end-users. • Seamless integration with Gefen Syner-G[™] software allows for quick installation and configuration on a network
- Automatic assignment of IP addresses for all Gefen Video and KVM over IP devices on a network
- Front panel control push-buttons/display, handheld IR remote, and web server interface allow easy and convenient end-user operation
- Automation control system interface via Telnet and UDP
- POE (Power Over Ethernet) on LAN 1 port eliminates the need for an external power
- Password-protected independent user and administrative access
- Easy to read 2 line/20 characters per line Liquid Crystal Display
- System Configuration Upload/Download function Plug-and-Play installation with little to no set-up
- Locking power supply connector
- 2U tall rack-mountable enclosure, detachable rack ears included
- Slanted front panel for ergonomic push-button access and display visibility when

- Display: 2 lines, 20 characters per line, Liquid Crystal Display, backlit
- Push-buttons: (28) tact-type
- IR Sensor: (1) on front panel
- LAN 1 IP Port: (1) RJ-45 jack, POE-enabled
- LAN 2 IP Port: (1) RJ-45 jack
- Power Indicator: (1) LED, blue • Power Supply: 5V DC, locking connector
- Power Consumption: 4.3W maximum
- Operating Temperature: +32 to +122 °F (0 to +50 °C)
- Operating Humidity: 5% to 90% RH, non-con
- Storage Temperature: -4 to +185 °F (-20 to +85 °C) Storage Humidity: 0% to 95% RH, non-condensing
- MTBF: 50000 hours
- Dimensions without rack ears (excluding buttons & connectors, W x H x D):
- 17" x 3.5" x 2.7" (432mm x 88mm x 68mm)
- Dimensions with rack ears (excluding buttons & connectors, W x H x D): 19" x 3.5" x 2.7" (482mm x 88mm x 68mm)
- Net Unit Weight: 3.7 lbs (1.7 kg)
- Packaged Weight: 5.6 lbs (2.6 kg)







Extenders





DVI ELR Extender over one CAT-5 up to 150 meters



Extend DVI up to 495 feet (150 meters) over one CAT-5e cable

The DVI ELR Extender over one CAT5 allows the extension of a DVI source to a display, up to 495 feet (150 meters), using a single CAT-5e cable. This product is capable of HDCP and HPD pass-through. It can also be configured by the installer via DIP switches for maximum range or maximum bandwidth, and for low power consumption (auto sleep mode) or always-on operation. The DVI Extender over one CAT5 uses Gefen's ELR implementation of HDBaseT® technology, allowing the DVI signal to travel along a single CAT-5e or better cable, reducing cable costs and facilitating installation.

How It Works

Use the included DVI cable to connect the computer or other DVI source to the Sender unit. Connect the Receiver unit to a Hi-Def display with a DVI cable. Use up to 495 feet (150m) of CAT-5e cable to connect the Sender to the Receiver unit. Configure DIP switches as necessary. Connect the included locking power supplies to the Sender and the Receiver units and plug the power supplies to available electrical outlets. Power on all connected equipment.



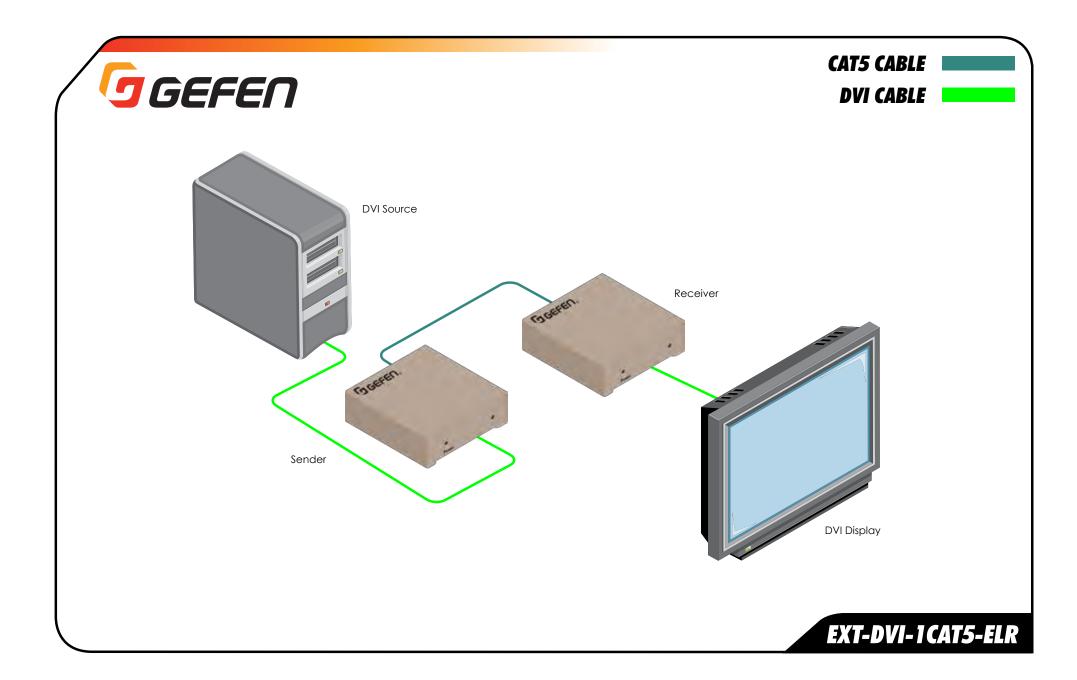




Features*

- Extends DVI up to 495 feet (150 meters) over one CAT-5e cable
- Supports resolutions up to 1080p Full HD and 1920 x 1200 (WUXGA)
- EDID management for rapid integration of source and display
- Enable/Disable switches for HPD pass-through
- Power-Save (Green Mode) selector switch
- 150m/100m range selector switch configures the extender for maximum range (150 meters) or maximum bandwidth
- Locking power supplies
- Surface-mountable

- Maximum Pixel Clock: 165 MHz
- Video Input Connector (Sender): (1) DVI-I, 29-pin, female (digital only)
- Video Output Connector (Receiver): (1) DVI-I, 29-pin, female (digital only)
- Link Connector (Sender/Receiver): (1) RJ-45
- Internal/External EDID Selector (Sender): (1) DIP switch
- HPD Pass-Through Selector (Sender): (1) DIP switch
- Power-Save Selector (Sender/Receiver): (1) DIP switch
- 150m/100m Range Selector (Sender/Receiver): (1) DIP switch
- Power Indicator (Sender/Receiver): (1) LED, blue
- Link Indicator (Sender/Receiver): (1) LED, green
- Power Supply (Sender/Receiver): 5V DC
- Power Consumption (Sender/Receiver): 10 W per unit maximum
- Operating Temperature: 0 to +45°C
- Operating Humidity: 0 to 90% RH, non-condensing
- Dimensions (W x H x D): 4.3" x 1" x 3.4" (110mm x 26mm x 86mm)
- Shipping Weight: 3 lbs (1.4 kg)





HDMI KVM ELR Extender Over One CAT-5 cable













EXT-HDKVM-ELR

Extra Long Range KVM Extender for HDMI and USB over one CAT-5 cable

The Gefen HDMI KVM ELR extends HDMI and USB up to 330 feet (100 meters) over a single CAT-5 cable. Resolutions up to 4K Ultra HD (3840 x 2160 @ 60Hz 4:2:0 or @ 30Hz 4:4:4), 4K Cinema-DCI (4096 x 2160 @ 24 or 30Hz), 1080p Full HD, and 1920 x 1200 (WUXGA) are supported. HDCP, USB 2.0 up to 30 Mbps, and USB 1.1 are also supported. The Receiver unit accommodates up to three USB devices, providing access to keyboard, mouse, touch-panels, printers, scanners, and external storage media. Typical applications include remote workstations and interactive digital signage with touch-screens. This product uses Gefen's ELR implementation that integrates the proven HDBaseT™ technology with powerful EDID Management capabilities. HDMI and USB are transported over the same CAT-5e cable, reducing cabling costs in addition to providing easier and more reliable installation.

How It Works

Place the HDKVM ELR Sender unit next to the computer source and use the included HDMI cable to connect the computer to the Sender unit. Use the supplied USB cable to connect the USB host (source) device to the USB port on the Sender unit. Connect the Receiver unit to a display with an HDMI cable. Connect the USB devices to the Receiver unit. Use one CAT-5e cable, up to 330 feet (100 meter), to connect the Sender unit to the Receiver unit. Connect the included locking power supplies to the Sender unit and Receiver unit, and then connect both power cords to available electrical outlets.





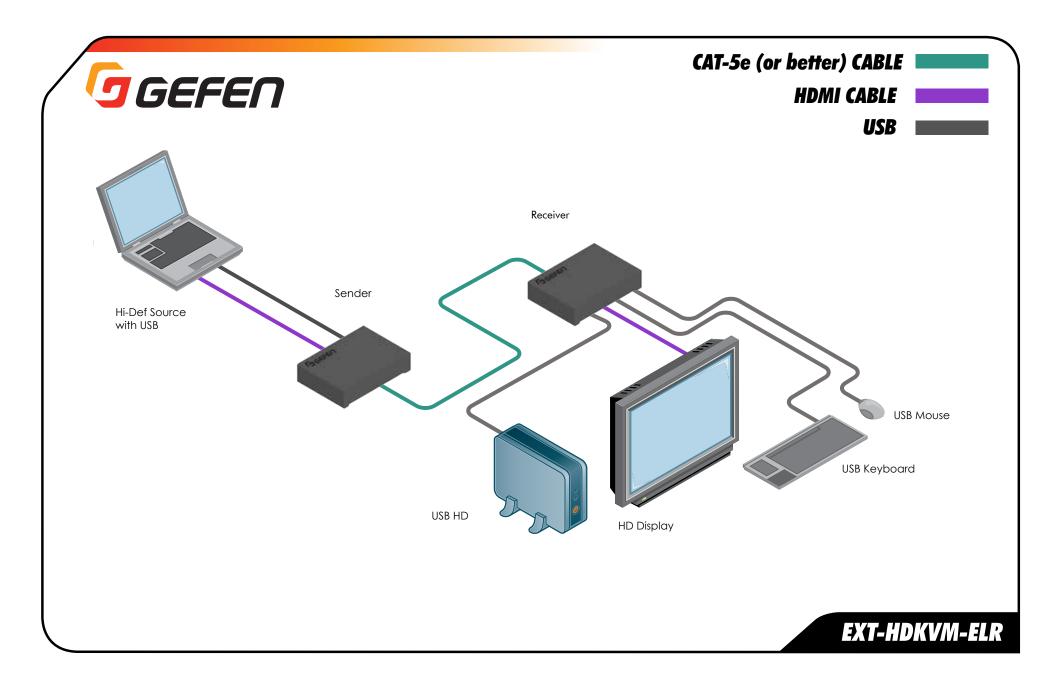




Features'

- Extends 4K Ultra HD (3840 x 2160 @ 60Hz, 4:2:0 or 30Hz, 4:4:4), and USB over a single CAT-5e cable up to 330 feet/100 meters (8-bit color)
- Extends 4K Cinema (DCI) (4096 x 2160 @ 24 or 30Hz 4:4:4), and USB over a single CAT-5e cable up to 330 feet/100 meters (8-bit color)
- Extends HDMI at 1080p Full HD, and USB over a single CAT-5e cable up to 330 feet/100 meters (up to 12-bit Deep Color)
- HDMI Features Supported:
 - HDMI 2.0
 - HDCP 1.4 compliant
 - 12-bit Deep Color
 - LPCM 7.1 audio, Dolby® TrueHD, Dolby Digital® Plus, and DTS-HD Master Audio™ pass-through
 - 3DTV pass-through
 - CEC pass-through
 - Lip Sync pass-through
- Supports up to 30 Mbps when using USB 2.0
- Backward-compatible with USB 1.1
- EDID management for rapid integration of source and display devices
- ELR and HDBaseT technologies
- Locking power supplies
- 1U tall, half-rack width enclosures are rack-mountable using EXT-RACK-1U

- Maximum Pixel Clock: 300 MHz
- Maximum TMDS Clock: 300MHz
- Video Input Connector (Sender): HDMI Type A, 19-pin, female, locking
- Video Output Connector (Receiver): HDMI Type A, 19-pin, female, locking
- USB Connector (Sender): (1) Type B, female
- USB Connector (Receiver): (3) Type A, female
- Link Connector (Sender / Receiver): RJ-45, shielded
- Service Connector for field upgrades (Sender / Receiver): USB mini-B
- Power Supply (Sender / Receiver): 5V DC, locking
- Power Consumption (Sender / Receiver): 10W (max.)
- Operating Temperature: +32 to +104 °F (0 to +40 °C)
- Dimensions (W x H x D): 8.5" x 1.75" x 4.5" (216mm x 45mm x 114mm)
- Shipping Weight: 6 lbs. (2.7 kg)







4K Ultra HD Extender for HDMI over One Fiber w/ RS-232 and 2-way IR















EXT-HDRS2IR-4K2K-1FO

Extend HDMI with 4K Ultra HD support, RS-232, and Bi-Directional IR over one fiber optic cable up to 3300 feet (1000 meters)

The Gefen 4K Ultra HD Extender for HDMI over One Fiber is a complete solution, allowing HDMI, RS-232 and Bi-Directional IR to be extended up to 3300 feet (1000 meters) at 4K resolution and up to 6600 feet (2000 meters) at 1080p60 Full HD. This product works with any HDMI source and supports resolutions up to 4K Ultra HD (3840 x 2160 @ 60Hz 4:2:0) and 4K Cinema (DCI) (4096 x 2160 @ 24 or 30Hz 4:4:4). This HDCP-compliant extender is the ideal for installations where the HDMI source and display are located apart from each other in an interference-prone operating environment. A single strand of SC-terminated multi-mode fiber optic cable is used for extension, providing excellent protection from electromagnetic interference (EMI), and preserving signal integrity. The Automatic Virtual EDID feature allows automatic copying of the Extended Display Identification Data (EDID) to the sender unit for continuous availability to the source. This allows rapid recovery of picture upon display power up or when used in conjunction with Switchers and Matrixes. Compared to similar copper-based solutions, optical signal transmission provides inherent galvanic isolation and excellent immunity to electromagnetic interference. These Sender and Receiver modules also feature metal enclosures, providing further protection against radiated noise. Locking HDMI and power connectors ensure trouble-free installation and long-lasting, reliable operation.

The Sender unit is placed near the source and the Receiver unit near the Display. Connect the supplied locking HDMI cable between the Sender unit and the source. Connect an HDMI cable between the Receiver unit and the display. Connect the included DB-9 cable from an RS-232 automation device to the Sender unit. Connect another male-to-female DB-9 cable between the Receiver unit and an RS-232-controlled device on the Receiver side (such as the display). To send an IR control signal from the viewing location to the source unit, connect the IR output from an automation control device or the included Gefen EXT-RMT-EXTIRN IR Extender to the IR In/Ext port on the Receiver, and connect an IR Emitter to the IR Out on the Sender unit to IR Sensor window of the source. To control devices at the viewing location (such as the display) from the source side, use the IR In/Ext port on the Sender side and the IR Out connection on the Receiver side. Connect one strand of multi-mode fiber optic cable, with SC connectors, between the Sender and the Receiver units. Connect the locking power supplies to the Sender and the Receiver units and plug them into electrical outlets. Power up all associated equipment.

- Extends HDMI, RS-232, and Bi-Directional IR over a single strand fiber
- Extends 4K Ultra HD (3840 x 2160 @ 60Hz, 4:2:0, or 30Hz, 4:4:4) up to:
 - 3300 feet (1000 meters) over 50/125µm OM3e/OM4 fiber
 - 500 feet (150 meters) over 50/125µm (OM3) fiber
- 165 feet (50 meters) over 62.5/125µm (OM1) fiber
- Extends 4K Cinema (DCI) (4096 x 2160 @ 24 or 30Hz, 4:4:4) up to: • 3300 feet (1000 meters) over 50/125µm OM3e/OM4 fiber
 - 500 feet (150 meters) over 50/125µm (OM3) fiber
 - 165 feet (50 meters) over 62.5/125µm (OM1) fiber
- Extends 1080p Full HD (1920 x 1080 @ 60Hz) up to:
 - 6600 feet (2000 meters) over $50/125\mu m$ OM3e/OM4 fiber
 - 1000 feet (300 meters) over 50/125μm (OM3) fiber
 - 330 feet (100 meters) over 62.5/125µm (OM1) fiber
- HDMI Features Supported:
 - HDMI 2.0
 - HDCP 1.4 • 12-bit Deep Color
 - LPCM 7.1 audio, Dolby® TrueHD, and DTS-HD Master Audio™
 - 3DTV pass-through
 - Lip Sync pass-through
- RS-232 extension
- · 2-way IR extension
- Auto Virtual EDID Automatic calibration based on the type and length of fiber optic cable
- Full duplex RS-232 up to 115200 baud • Firmware upgradable via USB
- Inherently immune to electromagnetic interference (EMI)
- Locking power supplies
- Surface-mountable

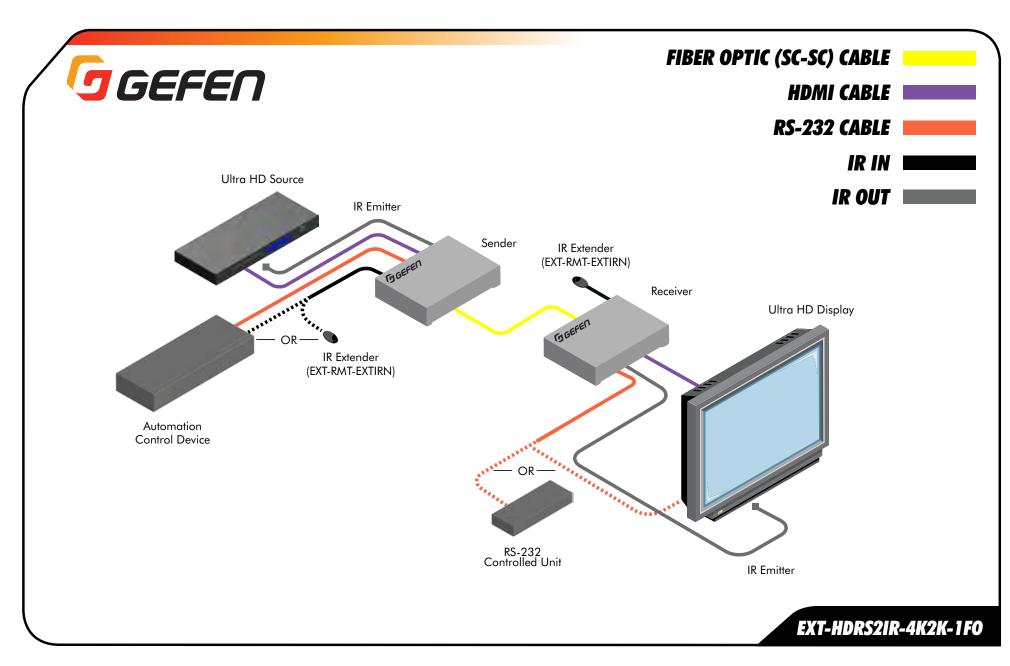
- Maximum Pixel Clock: 300 MHz
- HDMI Connectors (Sender/Receiver): (1) HDMI Type A, 19-pin, female, locking
- RS-232 Connector (Sender): (1) DB-9, female
- RS-232 Connector (Receiver): (1) DB-9, male
- USB Connectors (Sender/Receiver): (1) USB Mini-B, female
- IR Out Connector (Sender/Receiver): (1) 3.5mm mini-mono jack, female • IR In/Ext Connector (Sender/Receiver): (1) 3.5mm mini-stereo jack, female
- IR Extender type: EXT-RMT-EXTIRN
- Link Connectors (Sender/Receiver): (1) SC type
- Link Indicators (Sender/Receiver): (1) LED, green/red
- Power Indicators (Sender/Receiver): (1) LED, blue/red
- Bi-Directional IR Carrier Pass-through Frequency Range: 30 kHz to 60 kHz
- Power Supply (Sender/Receiver): 5V DC
- Power Consumption (Sender/Receiver): 2.5W each maximum
- Operating Temperature: +32 to +113 °F (0 to +45 °C)
- Operating Humidity: 5% to 90% RH, non-condensing • Storage Temperature: -4 to +185 °F (-20 to +85 °C)
- Storage Humidity: 0% to 95% RH, non-condensing
- MTBE: 50000 hours
- Dimensions (W x H x D, Sender/Receiver): 4.3" x 1" x 3.4" (110mm x 26mm x 86mm)
- Net Weight (Sender/Receiver): 0.4 lbs (0.2 kg) each
- Shipping Weight: 3.0 lbs. (1.4 kg)













4K Ultra HD Extender for HDMI over One CAT-5 with Ethernet, RS-232, Bi-Directional IR, and POL



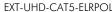








HDCP2.2





CAT-5e cable, up to 495 feet (150 meters)

The Gefen 4K Ultra HD ELR-POL Extender uses the Gefen implementation of the

HDBaseT™ technology to extend HDMI up to 495 feet (150 meters) using one CAT-5e cable. Resolutions up to 4K Ultra HD (3840 x 2160 @ 60 Hz 4:2:0) with 7.1 channels of HBR (High Bit Rate) lossless digital audio are supported. This product provides Ethernet, RS-232 and 2-way IR extension between the Sender and the Receiver units, making 10/100BaseT wired Ethernet connection available at the remote location without the need to run a separate cable. It also allows the transfer of IR commands and RS-232 communications between two remote locations. RS-232 and Bi-Directional IR can be used to control A/V sources placed near the Sender unit and to send automation commands to the display or another device placed near the Receiver unit. Gefen Bi-Directional POL (Power Over Line) technology powers the Sender or the Receiver unit using the same cable that extends the HDMI signal. Only one of the two units needs a power supply. This feature simplifies installation.

How It Works

The Sender unit is placed near the source and the Receiver unit near the Display. Connect the supplied locking HDMI cable between the Sender unit and the source. Connect an HDMI cable between the Receiver unit and the display. Connect an RS-232 automation device to the Sender unit using the included Phoenix-to-female DB-9 cable. Connect the Receiver unit to an RS-232controlled device (such as the display) using the included Phoenix-to-male DB-9 cable. To send an IR control signal from the viewing location to the source unit, connect the IR output from an automation control device or the included Gefen EXT-RMT-EXTIRN IR Extender to the IR In/Ext port on the Receiver, and connect an IR Emitter to the IR Out port on the Sender unit and attach it to the IR Sensor window of the source. To control devices at the viewing location (such as the display) via IR from the source side, use the IR In/Ext port on the Sender side and the IR Out connection on the Receiver side. Connect the Sender and the Receiver units together using a CAT-5e or better cable. Connect the locking power supply to either the Sender or the Receiver unit and plug it into an electrical outlet. Only one of the units needs an external power supply. The other unit will be powered through the CAT-5 cable. Power up all associated equipment.

Note: Shielded (STP) CAT-5e or CAT-6 is recommended. Unshielded (UTP) CAT-5e or CAT-6 may be acceptable depending on cable quality but is not the best choice. Care should always be given to keep these cables away from power lines and other sources of electromagnetic interference.







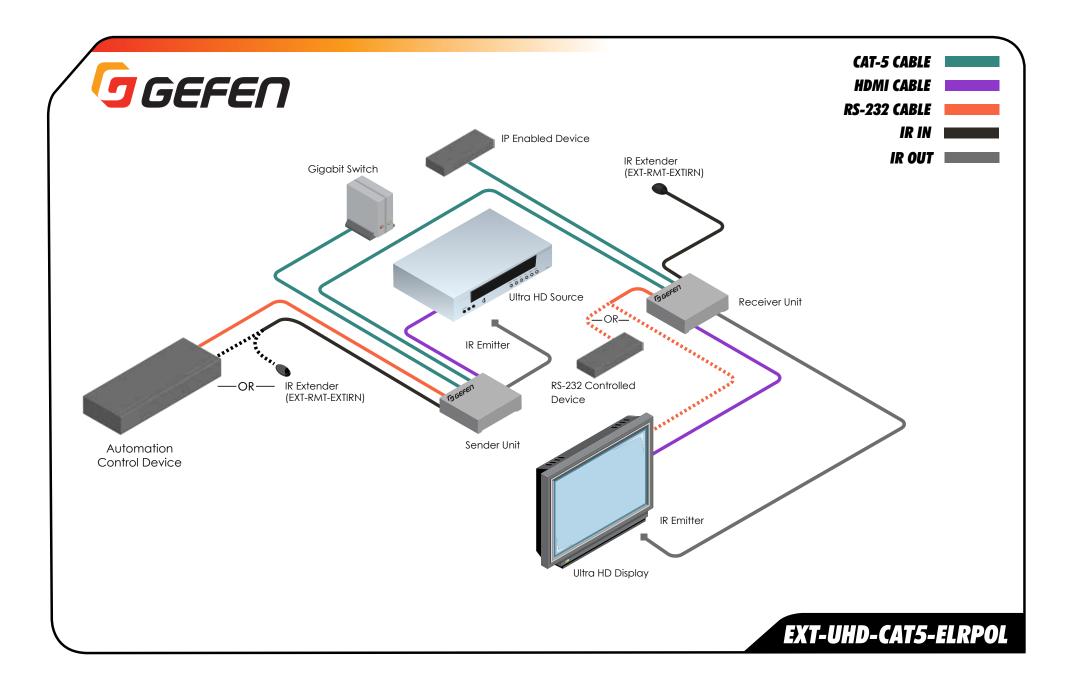






- Extends 4K Cinema (DCI) (4096 x 2160 @ 24 or 30Hz 4:4:4), Ethernet, RS-232, and Bi-Directional IR over a single CAT-5e cable up to 330 feet/100 meters (8-bit color)
- Extends HDMI at 1080p Full HD, Ethernet, RS-232, and Bi-Directional IR over a single CAT-5e cable up to 330 feet/100 meters (up to 12-bit Deep Color)
- Extends HDMI at 1080p Full HD, Ethernet, RS-232, and Bi-Directional IR over a single CAT-5e cable up to 495 feet/150 meters (8-bit color)
- HDMI Features Supported:
 - HDMI 2.0
 - HDCP 2.2 and 1.4
 - 12-bit Deep Color
 - LPCM 7.1 audio, Dolby® TrueHD, and DTS-HD Master Audio™ pass-through
 - 3DTV pass-through
 - CEC pass-through
 - Lip Sync pass-through
- RS-232 Extension
- IR extension from Sender to Receiver and from Receiver to Sender
- Gefen Bi-Directional POL feature provides power to the Sender or the Receiver unit over the link cable - only one side needs external power
- Uses the Gefen implementation of HDBaseT[™] technology
- Advanced EDID Management
- Firmware upgradable via RS-232
- Locking power connector
- Surface mountable

- Maximum Pixel Clock: 300 MHz
- Video Input Connector (Sender): (1) HDMI Type A 19-pin, female, locking
- Video Output Connector (Receiver): (1) HDMI Type A 19-pin, female, locking
- Link Connector (Sender/Receiver): (1) RJ-45, shielded
- RS-232 port (Sender): (1) 3-pin Phoenix DB-9 adaptor cable included
- RS-232 port (Receiver): (1) 3-pin Phoenix DB-9 adaptor cable included
- IR Ext/In port (Sender/Receiver): (1) 3.5mm mini-stereo jack
- IR Extender type: EXT-RMT-EXTIRN
- IR Out port (Sender/Receiver): (1) 3.5mm mini-mono jack
- Power/Link Indicator LED (Sender/Receiver): (1) Bi-color: Blue/Green
- Power Supply: (1) 24V DC, locking
- Power Consumption (Sender and Receiver combined): 12W maximum
- Operating Temperature: +32 to +113 °F (0 to +45 °C)
- Operating Humidity: 5% to 90% RH, non-condensing
- Storage Temperature: -4 to $+185\,^{\circ}\text{F}$ (-20 to $+85\,^{\circ}\text{C}$)
- Storage Humidity: 0% to 95% RH, non-condensing
- MTBF: 50000 hours
- Dimensions (W x H x D, Sender/Receiver): 4.3" x 1" x 3.2" (110mm x 26mm x 85mm)
- Net Weight (Sender/Receiver): 0.4 lbs (0.2 kg) each
- Shipping Weight: 3.0 lbs. (1.4 kg)







HDBaseT Extender for HDMI with Bi-Directional IR (IN/OUT) and POL















GTB-HDBT-POL-BLK

HDBaseT Extender for HDMI using one CAT-5e or CAT-6 cable up to 230 feet (70 meters)

The GTB-HDBT-POL uses Gefen's implementation of the HDBaseT™ technology to extend HDMI at resolutions up to 4K Ultra HD 60 Hz 4:2:0 and 4K DCI (Cinema), along with 7.1 channels of HBR (High Bit Rate) lossless digital audio. Extension range at 1080p Full HD is up to 230 feet (70 meters) using one CAT-6 cable or up to 198 feet (60 meters) using one CAT-5e. This product provides 2-way IR extension between the Sender and the Receiver unit, allowing IR communications between the source and the viewing location. 2-way IR can be used to control A/V sources placed near the Sender unit and to send automation commands to the display or any other device placed near the Receiver unit. Gefen POL (Power Over Line) technology powers the Receiver unit using the same cable that extends the HDMI signal. This feature eliminates the need for an external power supply for the Receiver unit and simplifies installation.

How It Works

Connect the Sender unit to the Hi-Def source using an HDMI cable. Use another HDMI cable to connect the Receiver unit to the HDTV display. Connect a single CAT-6 cable up to 230 feet (70 meters) or CAT-5e cable up to 198 feet (60 meters) between the Sender and Receiver units. Connect the included 24V DC power supply in to the Sender unit and plug the power supply to an available electrical outlet. Power to the Receiver unit is delivered from the Sender unit over the CAT-5e/6 cable using Gefen POL technology. To control the Hi-Def source from the display location, connect an IR Extender (Gefen part no. EXT-RMT-EXTIRC) to the Ext IR connector on the Receiver unit. Connect an IR emitter (Gefen part no. GTB-IREMIT) to the IR Out of the Sender unit and place the IR emitter over the IR sensor of the Hi-Def source. Point the IR remote at the IR Extender to control the Hi-Def source. For IR control of a device placed near the Receiver unit (such as the display), connect the IR output from an automation device (such as the Gefen PACS or Mini PACS) to the IR In connector on the Sender unit. Connect an IR emitter (Gefen part no. GTB-IREMIT) to the IR Out on the Receiver unit and attach the IR emitter to the IR sensor of the device being controlled.









Features

- Extends 4K Ultra HD (3840 x 2160 @ 60Hz 4:2:0, or 30Hz, 4:4:4) and Bi-Directional IR up to 130 feet (40 meters) over a single CAT-5e or CAT-6 cable (8-bit color)
- Extends 4K Ultra HD (4096 x 2160 @ 24 or 30Hz 4:4:4) and Bi-Directional IR up to 130 feet (40 meters) over a single CAT-5e or CAT-6 cable
- Extends HDMI at 1080p Full HD and Bi-Directional IR up to 230 feet (70 meters) over a single CAT-6 cable, or up to 198 feet (60 meters) over CAT-5e
- HDMI Features Supported:
 - HDMI 2.0
 - HDCP 2.2 and 1.4
 - 12-bit Deep Color
 - LPCM 7.1 audio, Dolby® TrueHD, Dolby Digital® Plus, and DTS-HD® Master Audio™
 - 3DTV pass-through
 - CEC pass-through
 - Lip Sync pass-through
- Bi-Directional IR extension
- Gefen POL feature provides power to the Receiver unit over the CAT-5e
- Uses HDBaseT[™] technology
- Locking power connector
- Easy surface mounting

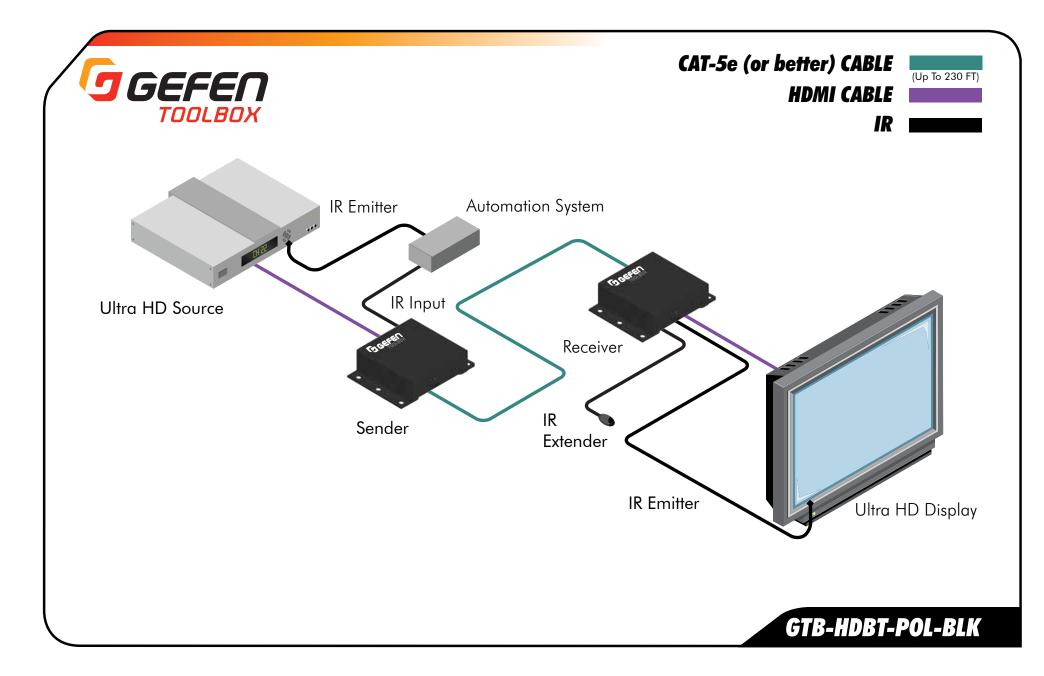
Specifications*

- Maximum Pixel Clock: 300 MHz
- Video Input Connector (Sender): (1) HDMI Type A 19-pin, female, locking
- Video Output Connector (Receiver): (1) HDMI Type A 19-pin, female, locking
- Link Connectors (Sender/Receiver): (1) RJ-45, shielded
- Power/HDCP Indicator LED: Bi-color: Blue/Amber
- IR Extender port (Receiver): 3.5mm mini-stereo jack
- IR Out port (Sender / Receiver): 3.5mm mini-mono jack
- IR In port (Sender): 3.5mm mini-mono jack
- Power Supply: (1) 24V DC, locking
- Power Consumption: 24W (max.)
- Dimensions (W x H x D) (Sender / Receiver): 4.3" x 1" x 3.2"

(110mm x 26mm x 80mm)

• Shipping Weight: 4 lbs. (1.8 kg)









4K Ultra HD Extender for HDMI with RS-232, Bi-Directional IR, and POL













GTB-UHD2IRS-ELRPOL-BLK

Extend HDMI, RS-232, and 2-way IR over one CAT-5e cable, up to 495 feet (150 meters)

The GefenToolBox 4K Ultra HD ELR Extender for HDMI with POL uses Gefen's implementation of the HDBaseT[™] technology to extend HDMI up to 495 feet (150 meters) using one CAT-5e cable. Resolutions up to 4K Ultra HD with 7.1 channels of HBR (High Bit Rate) lossless digital audio are supported up to 330 feet (100 meters). This product provides RS-232 and 2-way IR extension between the Sender and the Receiver units, allowing the transfer of IR commands and RS-232 communications between two remote locations. RS-232 and Bi-Directional IR can be used to control A/V sources placed near the Sender unit and to send automation commands to the display or any other device placed near the Receiver unit. Gefen POL (Power Over Line) technology powers the Receiver unit using the same cable that extends the HDMI signal from the Sender unit. This feature eliminates the need for an external power supply for the Receiver unit and simplifies installation.

How It Works

Connect the Sender unit to a Hi-Def source using the included HDMI cable. Use another HDMI cable to connect the Receiver unit to a display. Connect a single CAT-5e or better cable between the Sender and Receiver units. To control the source from the display location via IR, connect the included IR extender (Gefen part no. EXT-RMT-EXTIRN) to the IR Ext connector on the Receiver unit. Connect the included IR emitter (Gefen part no. GTB-IREMIT) to the IR Out port of the Sender unit and place the IR emitter over the IR sensor of the source. Point the IR remote at the IR extender to control the source. For IR control of a device placed near the Receiver unit (such as the display), connect the IR output from an automation control device to the IR In connector on the Sender unit. Connect an IR emitter (Gefen part no. EXT-IREMIT) to the IR Out port on the Receiver unit and attach the IR emitter to the IR sensor of the device being controlled. To extend RS-232 between the local and remote locations, connect the included male-to-female DB-9 cable from the Sender to an automation control device, and connect another DB-9 cable of the same type from the Receiver unit to the device to be controlled. Connect the included 24V DC power supply to the Sender unit and plug it into an available electrical outlet. Power to the Receiver unit is delivered from the Sender unit over the CAT-5e cable using Gefen POL technology. Power on all associated equipment.

Note: Shielded (STP) CAT-5e or CAT-6 is recommended. Unshielded (UTP) CAT-5e or CAT-6 may be acceptable depending on cable quality but is not the best choice. Care should always be given to keep these cables away from power lines and other sources of electromagnetic









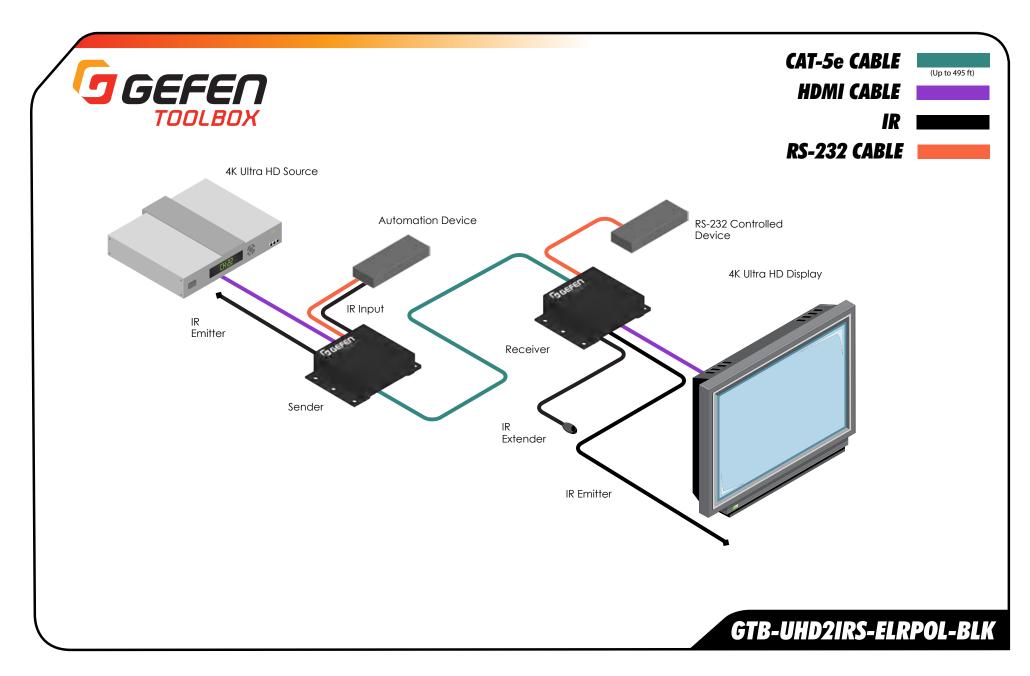
Features*

- Extends 4K Ultra HD (3840 x 2160 @ 60Hz, 4:2:0 or 30Hz, 4:4:4) RS-232, and Bi-Directional IR up to 330 feet (100 meters) over a single CAT-5e (8-bit color**)
- Extends 4K Cinema (DCI) (4096 x 2160 @ 24 or 30Hz 4:4:4), (8-bit color**), RS-232,
- and Bi-Directional IR over a single CAT-5e cable up to 330 feet/100 meters (8-bit color**)
- Extends HDMI at 1080p Full HD, RS-232, and Bi-Directional IR over a single CAT-5e cable up to 330 feet/100 meters (up to 12-bit Deep Color)
- Extends HDMI at 1080p Full HD, RS-232, and Bi-Directional IR over a single CAT-5e
- cable up to 495 feet/150 meters (8-bit color**) • HDMI Features Supported:
 - - HDMI 2.0
 - HDCP 2.2 and 1.4
 - 12-bit Deep Color
 - LPCM 7.1 audio, Dolby® TrueHD, and DTS-HD Master Audio™ pass-through • 3DTV pass-through
 - CEC pass-through
 - Lip Sync pass-through
- RS-232 Extension
- · 2-way IR extension from Sender to Receiver and from Receiver to Sender
- Gefen POL feature provides power to the Receiver unit over the link cable
- Uses Gefen's implementation of HDBaseT[™] technology
- EDID pass-through
- Locking power connector

** This product passes through the display's EDID to the source. If the display is capable of accepting Deep Color, the source must be manually configured to output 8-bit color

- Maximum Pixel Clock: 300 MHz
- Maximum TMDS Clock: 300 MHz
- Video Input Connector (Sender): (1) HDMI Type A 19-pin, female, locking
- Video Output Connector (Receiver): (1) HDMI Type A 19-pin, female, locking
- Link Connector (Sender/Receiver): (1) RJ-45, shielded
- RS-232 port (Sender): (1) DB-9, female
- RS-232 port (Receiver): (1) DB-9, male
- IR Extender port (Receiver): (1) 3.5mm mini-stereo jack
- IR Extender type: EXT-RMT-EXTIRN
- IR Out port (Sender/Receiver): (1) 3.5mm mini-mono jack
- IR In port (Sender): (1) 3.5mm mini-mono jack
- Power/HDCP Indicator LED (Sender/Receiver): (1) Bi-color: Blue/Amber
- Power Supply: (1) 24V DC, locking
- Power Consumption: 10W maximum
- Operating Temperature: 0 to +50 °C
- Operating Humidity: +10 to +90%, Relative Humidity, non-condensing
- Storage Temperature: -20 to +85 °C
- Storage Humidity: 0 to +95%, Relative Humidity, non-condensing • MTBF: 50000 hours
- Dimensions (W x H x D) (Sender / Receiver): 4.3" x 1" x 3.2" (110mm x 26mm x 80mm) • Unit Weight (Sender/Receiver): 0.35 lbs. (0.2 kg)
- Shipping Weight: 2.6 lbs. (1.2 kg)





Wireless Extenders for HDMI





Wireless Extender for HDMI 5 GHz Short Range up to 33 feet (10 meters)







EXT-WHD-1080P-SR

















The Wireless for HDMI 5 GHz SR (Short Range) Extender system sends high definition audio and video to any HDTV screen up to 33 feet (10 meters). It extends HDCP-compliant HDMI AV content from computers, game consoles, set-top boxes, Blu-ray players, and other AV sources to a remotely located display. HD resolutions up to 1080p Full HD, 7.1-channels of LPCM digital audio, and 5.1 channels of Dolby® or DTS® formats are supported. This wireless system is comprised of a Sender and a Receiver unit. The small "Stick" Sender connects directly to an HDMI port, and can be powered either from a powered USB port or from the included power supply. It is ideal for high-definition AV extension in a conference room or home theater installation that requires occasional connection of portable devices such as a presentation laptop computer or a video camera. The Receiver unit connects to a display with an HDMI input, using the supplied HDMI cable. It can be attached to a standard ¼"-20 camera tripod mount, wall mounted using two keyhole slots, or be placed on a shelf. Thanks to its small-size, low-profile, and the included wired IR Extender module, it can be hidden away behind the display or inside an equipment cabinet if needed. Up to eight Sender units can be accessed by the Receiver, one at a time, using its handheld remote control. While the Wireless for HDMI 5 GHz SR Extender system can transmit through obstacles and does not require line-of-sight placement of its transceivers, it is optimized for shorter distances that are typical of in-room use. For longer range extension, use the Gefen EXT-WHD-1080P-LR.

Features*

- Wireless extension of HDMI up to 33 feet (10 meters) **
- Supports resolutions up to 1080p Full HD, up to 7.1 channels of LPCM digital audio, and up to 5.1 channels of Dolby® and DTS® formats
- Transmits through obstacles does not require line-of-sight
- HDMI Features Supported
- 3DTV pass-through
- HDCP pass-through
- Lip Sync
- Uncompressed High Definition A/V from source to display
- Less than 1 frame latency
- AES 128 Encryption
- Compatible with legacy DVI displays
- Companie
- Small "Stick" connects directly to HDMI port
- Powered from a USB port or included power supply
- Ideal for temporary connection of mobile devices, laptops, cameras, etc.
- Receiver unit:
- IR Extender module included for hidden installations
- Small and compact form factor can be installed behind the TV
- Flexible mounting options: 1/4"-20 thread, wall mounting, shelf placement
- Handheld IR remote for easy setup and operation
- Firmware update via Mini-USB port using Gefen Syner-GTM software
- WHDI 1.0, FCC Part 15, IC, and ETSI-compliant
- Additional Sender units (EXT-WHD-1080P-SR-TX) available separately ***
- * Features and specifications are subject to change without notice.
- ** Obstructions such as walls and furniture, and RF interference could reduce reception distance. This product operates in the 5 GHz RF region, and features a specific number of channels. Other 5 GHz Transmitters including WiFi Routers may be occupying the same channels and may cause reception issues. See the User Manual for recommendations to help reduce interference.
- *** Due to different transmission power levels, mixing of EXT-WHD-1080P-SR and EXT-WHD-1080P-LR Senders is not recommended. GTV-WHD-1080P-SR and GTV-WHD-1080P-LR Senders are not compatible with this product.

Specifications*

- Number & location of channels:
- US model: 4: 5.19 GHz, 5.230 GHz, 5.755 GHz, 5.795 GHz
- EU model: 2: 5.19 GHz, 5.230 GHz
- Maximum number of Senders to be linked: 8
- Video Input Connector (Sender): (1) HDMI Type A, 19-pin, male
- Video Output Connector (Receiver): (1) HDMI Type A, 19-pin, female
- Power Connector (Sender/Receiver): (1) USB Mini-B
- $\bullet\,$ Power Supply (Sender): (1) 5V/2A DC with USB Type-A connector
- Power Supply (Receiver): (1) 5V/2A DC with USB Type-A connector
- Power Consumption (Sender/Receiver): 3W (max.) / 6W (max.)
- Operating Temperature: +32 to +104 °F (0 to +40 °C)
- \bullet Operating Humidity: +10 to +85%, Relative Humidity, non-condensing
- Storage Temperature: +14 to +140 °F (-10 to +60 °C)
- Storage Humidity: +5 to +90%, Relative Humidity, non-condensing
- Dimensions (W x H x D):
- Sender Unit (including HDMI connector):

1.2" x 0.65" x 3.2" (30mm x 16mm x 80mm)

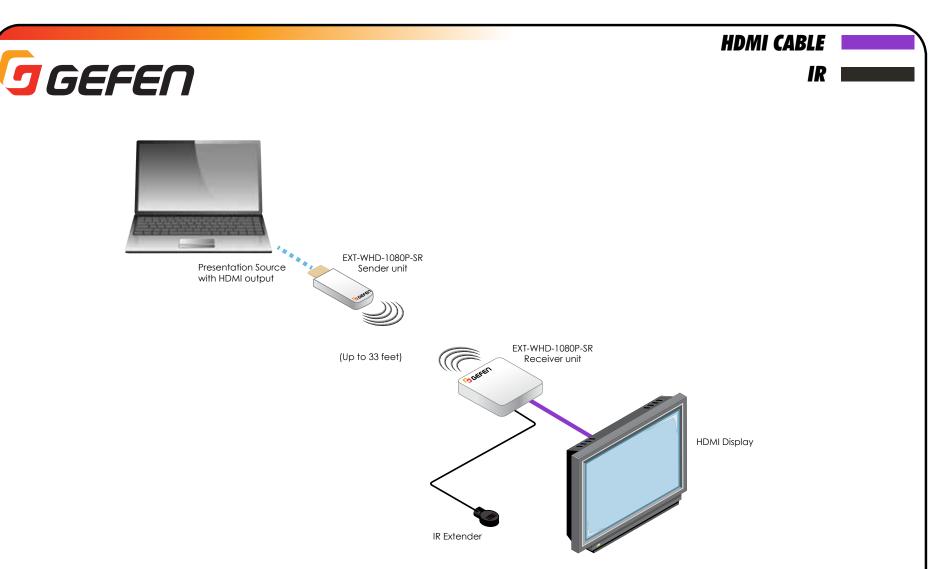
• Receiver Unit (including feet):

3.8" x 1.4" x 3.8" (95mm x 35mm x 95mm)

- Net Unit Weight:
- Sender Unit: 0.06 lbs (0.03 kg)
- Receiver Unit: 0.3 lbs (0.15 kg)
- Shipping Weight:
- EXT-WHD-1080P-SR: 1.9 lbs (0.9 kg)
- EXT-WHD-1080P-SR-TX: 0.6 lbs (0.3 kg)







EXT-WHD-1080P-SR



Wireless Extender for HDMI 5 GHz Long Range up to 100 feet (30 meters)



EXT-WHD-1080P-LR















Up to 8

The Wireless for HDMI 5 GHz LR (Long Range) Extender system sends high definition audio and video to any HDTV display up to 100 feet (30 meters). It extends HDCPcompliant HDMI AV content from computers, game consoles, set-top boxes, Blu-ray players, and other AV sources to a remotely located display. HD resolutions up to 1080p Full HD, 7.1-channels of LPCM digital audio, and 5.1 channels of Dolby® or DTS® formats are supported. This wireless system is comprised of a Sender and a Receiver unit. Both units can be attached to a standard 1/4"-20 camera tripod mount, wall mounted, or be placed on a shelf. The small and low-profile Receiver unit includes a wired IR Extender module, and can be hidden away behind the display or inside an equipment cabinet if needed. The Sender features two HDMI inputs and an HDMI output for connection to a local display. The end-user can select between the two HDMI sources by using the included handheld IR remote or by pressing the Input button on the Sender or the Receiver unit. The included IR emitter array can be connected to the Sender unit and attached to the IR sensor windows of the two Hi-Def sources, allowing full control of the source unit from another room simply by pointing the IR remote of the source at the Receiver unit. This wireless extender system is ideal for high-definition AV extension in a conference room, classroom, auditorium, home theater, and multiroom AV installations that feature multiple sources and two displays. Up to eight Sender units can be accessed by a Receiver, one at a time, using its handheld remote control. The Wireless for HDMI 5 GHz LR Extender system can transmit through walls and does not require line-of-sight placement of its transceivers.

Features*

- Wireless extension of HDMI up to 100 feet (30 meters) **
- Supports resolutions up to 1080p Full HD, up to 7.1 channels of LPCM digital audio, and up to 5.1 channels of Dolby® and DTS® formats
- Transmits through obstacles does not require line-of-sight
- Long Range performance makes it ideal for multi-room use
- IR Back Channel for source control with carrier frequency selector
- HDMI Features Supported
- CEC
- 12-bit Deep Color
- 3DTV pass-through
- HDCP pass-through
- Lip Sync
- Uncompressed High Definition A/V from source to display
- Less than 1 frame latency
- AES 128 Encryption
- Compatible with legacy DVI displays
- Sender unit:
- 2 HDMI Inputs
- Local HDMI "Mirrored" Output
- IR Output port and included Emitter Array for source control
- Ideal for use with 2 sources in a fixed home theater type installation
- Flexible mounting options: 1/4"-20 thread, wall mounting, shelf placement
- · Receiver unit:
- IR Extender module included for hidden installations
- Small and compact form factor can be installed behind the TV
- Flexible mounting options: 1/4"-20 thread, wall mounting, shelf placement
- Handheld IR remote for easy setup and operation
- Firmware update via Mini-USB port using Gefen Syner-G[™] software
- WHDI 1.0, FCC Part 15, IC, and ETSI-compliant

* Features and specifications are subject to change without notice.

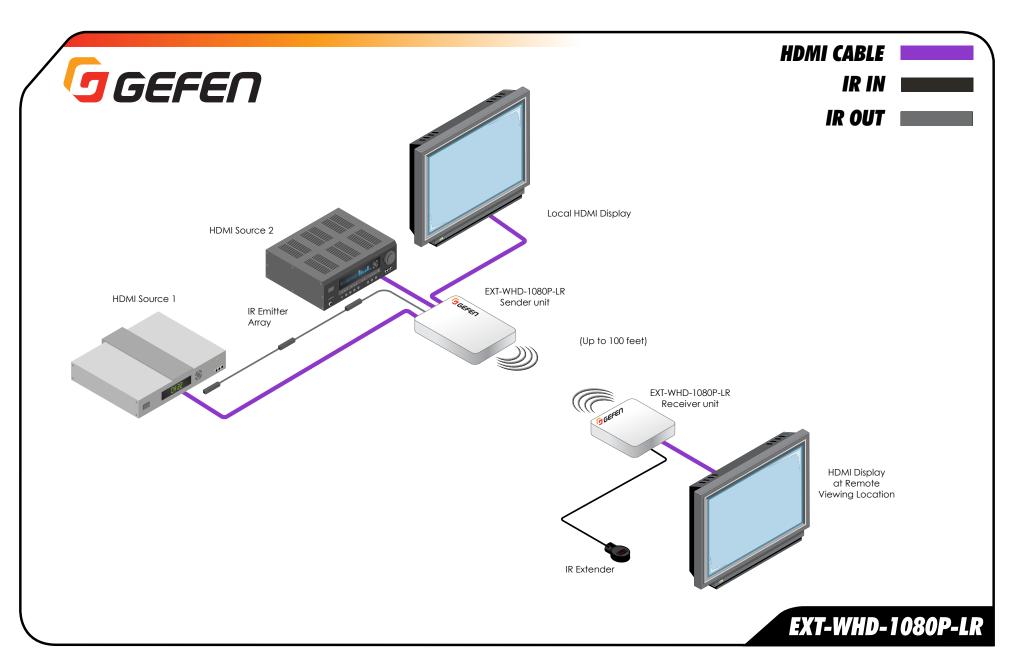
GTV-WHD-1080P-LR Senders are not compatible with this product.

- Additional Sender units (EXT-WHD-1080P-LR-TX) available separately ***
- ** Obstructions such as walls and furniture, and RF interference could reduce reception distance. This product operates in the 5 GHz RF region, and features a specific number of channels.
- Other 5 GHz Transmitters including WiFi Routers may be occupying the same channels and may cause reception issues. See the User Manual for recommendations to help reduce interference. $\ensuremath{^{***}}$ Due to different transmission power levels, mixing of EXT-WHD-1080P-SR and EXT-WHD-1080P-LR Senders is not recommended. Furthermore, GTV-WHD-1080P-SR and

- Number & location of channels:
- US model: 4: 5.19 GHz, 5.230 GHz, 5.755 GHz, 5.795 GHz • EU model: 2: 5.19 GHz, 5.230 GHz
- Maximum number of Senders to be linked: 8
- Video Input Connectors (Sender): (2) HDMI Type A, 19-pin, female
- Video Output Connector (Sender): (1) HDMI Type A, 19-pin, female
- Video Output Connector (Receiver): (1) HDMI Type A, 19-pin, female
- Power Connector (Sender): (1) 3.5mm barrel-type DC jack
- Power Connector (Receiver): (1) USB Mini-B
- Power Supply (Sender): (1) 5V/2A DC with USB Type-A connector
- Power Supply (Receiver): (1) 5V/2A DC with USB Type-A connector
- Power Consumption (Sender/Receiver): 7W (max.) / 6W (max.)
- Operating Temperature: +32 to +104 °F (0 to +40 °C)
- Operating Humidity: +10 to +85%, Relative Humidity, non-condensing
- Storage Temperature: +14 to +140 °F (-10 to +60 °C)
- Storage Humidity: +5 to +90%, Relative Humidity, non-condensing
- Dimensions (W x H x D, including feet):
- Sender Unit: 7.2" x 1.3" x 3.9" (182mm x 33mm x 98mm)
- Receiver Unit: 3.8" x 1.4" x 3.8" (95mm x 35mm x 95mm)
- Sender Unit: 0.5 lbs (0.25 kg)
- Receiver Unit: 0.3 lbs (0.15 ka)
- · Shipping Weight:
- EXT-WHD-1080P-LR: 2.6 lbs (1.2 kg)
- EXT-WHD-1080P-LR-TX: 1.5 lbs (0.65 ka)









Wireless Extender for HDMI 60 GHz





GTV-WHD-60G

Wirelessly extend HDMI video at 1080p Full HD with high resolution lossless 7.1 channel digital audio up to 33 feet (10 meters)

The GefenTV Wireless for HDMI 60 GHz extender system sends high definition audio and video to any HDTV display up to 33 feet (10 meters). It extends HDMI A/V content from computers, set-top boxes, and Blu-ray players to a remote HDCP-compliant Hi-Def display. This wireless product is comprised of small table-top Sender and Receiver units. It supports resolutions up to 1080p Full HD, 3DTV, CEC, and 7.1-channels of High Bit Rate (HBR) lossless digital audio such as Dolby® TrueHD, DTS-HD Master Audio™. The Wireless for HDMI 60 GHz is specifically designed to transmit within a room. Its signal will not penetrate through walls, facilitating interference-free operation of multiple units in adjacent venues and close proximity. Line-of-sight placement of transceivers, however, is not necessary. Thanks to its small form-factor, high performance, and near-zero latency, this product is ideal for high-definition A/V extension within a conference room or home theater installation.

How It Works

Connect the included HDMI cable from the Hi-Def source to the Sender unit. Connect the other included HDMI cable from the Receiver unit to the HDTV display. Connect the power supplies to both the Sender and Receiver units and to available electrical outlets. Power-up the source and the display. Press the power buttons on the Sender and Receiver units and make sure that they are on. A clear and vivid Hi-Def picture will appear on the screen and high resolution 7.1 channel audio will be played back through the audio system. CEC commands are also transferred seamlessly between connected HDMI components.











- Wireless extension of HDMI up to 33 feet (10 meters)
- Supports resolutions up to 1080p Full HD
- HDMI Features Supported
- HDCP pass-through
- 3DTV pass-through
- CEC pass-through
- Dolby® TrueHD, DTS-HD Master Audio™, and LPCM digital audio streams up to 7.1 channels
- Lip Sync
- Uncompressed High Definition A/V from source to display
- Near zero latency (less than one frame)
- Specifically designed for in-room operation only.
- Operates in the uncluttered 60GHz frequency region, minimizing the chances of interference from household devices such as cordless phones or WiFi equipment.
- Field-upgradable via USB port

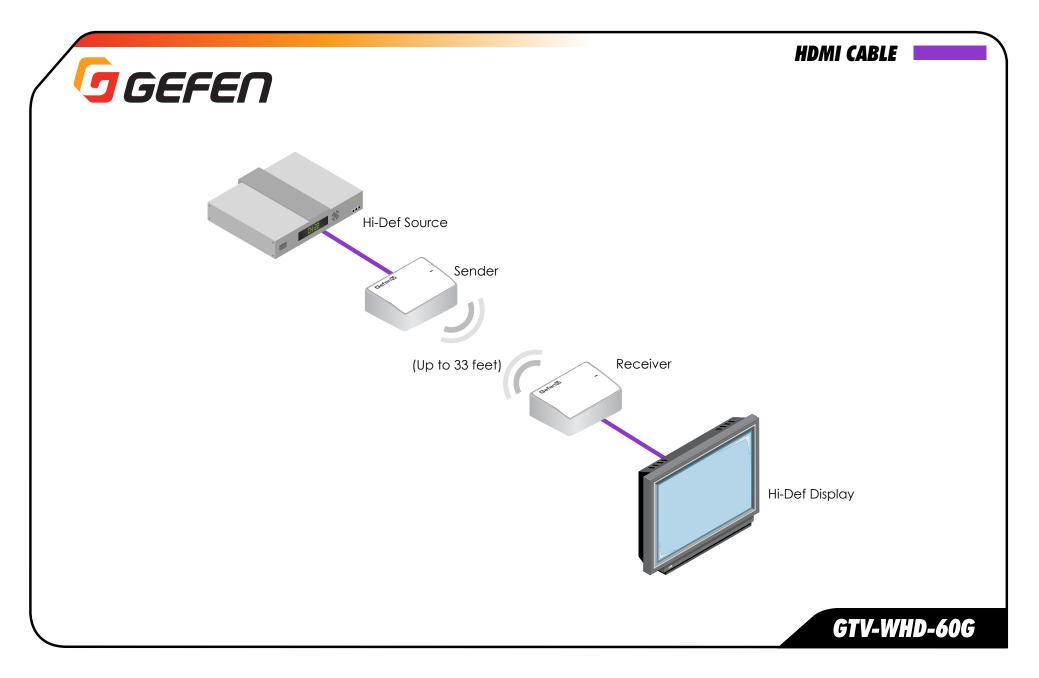
Specifications*

- Frequency Band Range: 60 GHz
- Video Input Connector (Sender): (1) HDMI Type A, 19-pin, female
- Video Output Connector (Receiver): (1) HDMI Type A, 19-pin, female
- USB Connector (Sender/Receiver): (1) Micro-B (firmware upgrade only)
- Link/Pair Button (Sender/Receiver): (1) Tact-type push-button switch
- Power Button (Sender/Receiver): (1) Latching push-button switch
- Power Indicator (Sender/Receiver): (1) LED, blue
- Power Supply (Sender/Receiver): 5V/2A DC
- Power Consumption (Sender/Receiver): 10W max.
- Dimensions (Sender/Receiver, W x H x D):

3.4" x 1.2" x 2.8" (85mm x 31mm x 72mm)

• Shipping Weight: 2.0 lbs. (0.9 kg)









Splitters







4K Ultra HD 1:2 Splitter for HDMI

The Gefen GTB-HD4K2K-142C routes one Ultra HD source to two 4K Ultra HD displays. This HDCPcompliant product has been specifically designed to support multiple layers of splitting/cascading for flawless performance in large video distribution and signage applications, supporting hundreds of displays. Resolutions supported include 4K Ultra HD (3860 x 2160 at 60 Hz, 4:2:0 color space), 4K DCI (4096 x 2160 at 24 and 30 Hz), 1080p Full HD, and 1920x1200 (WUXGA). Deep Color, 3D, and multichannel digital audio including 7.1 channels of LPCM and HBR (High Bit Rate) lossless formats are also passed through. This product features Fast Switching Technology (FST). FST is a Gefen firmware implementation for HDMI products. It eliminates the lengthy HDMI authentication process, and allows disconnecting, reconnecting, or powering down HDTV displays without any of these activities causing picture loss in other displays within the same distribution system. The choice between built-in and passed-through EDIDs, and the ability to configure the EDID for 2-channel or multichannel operation help customize your AV system to meet its operational requirements. The Gefen 1:2 Splitter is a high performance and capable choice for any small or large 4K video distribution system.

How It Works

The Ultra HD 4K Splitter is connected between the Ultra Hi-Def source and two Ultra HD displays. One or both of its outputs can alternatively be connected to another Gefen splitter to create a cascaded system that distributes HDMI to a larger number of displays. Each splitter should also be connected to an AC outlet using the included power supply. Once the source and the displays are turned on and power is applied to the splitter(s), the 4K picture will appear on all connected screens without any further set-up.











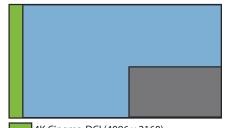
- Simultaneously displays an Ultra Hi-Def source on up to two Ultra HD displays
- Specifically designed to support 10 layers of splitting/cascading in large video distribution and signage applications, supporting hundreds of displays
- Supports resolutions up to 4K DCI (4096 x 2160 at 24 and 30 Hz), 4K Ultra HD (3860 x 2160 at 60Hz, 4:2:0 color space),1080p Full HD, and 1920x1200 WUXGA
- Supports 12-bit Deep Color at 1080p
- 3DTV pass-through
- Lip Sync pass-through
- FST Technology speeds up HDCP authentication process
- EDID Management and Audio Mode selectors for rapid integration of source and displays
- Supports LPCM 7.1, Dolby® TrueHD, Dolby Digital® Plus, and DTS-HD Master Audio™
- Supports the use of DVI sources and DVI displays with HDMI-to-DVI adapters (not included)
- Field-upgradeable firmware using Mini-USB port
- Locking Power Supply
- Surface-mountable

Specifications*

- Maximum Pixel Clock: 300 MHz
- HDMI Input Connector: (1) Type A 19-pin female, locking
- HDMI Output Connectors: (2) Type A 19-pin female, locking
- USB Port: (1) Mini-B
- Power Indicator: (1) LED, blue
- FST Switch: (1) 2-position slide-type
- Audio Switch: (1) 2-position slide-type • EDID Switch: (1) 2-position slide-type
- DC Power Connector: (1) Locking type
- Power Supply: 5V DC
- Power Consumption: 4 Watts (maximum)
- Operating Temperature: +32 to 104 °F (0 to +40 °C)
- Dimensions (W x H x D): 3.0" x 6.5" x 1.0" (76mm x 165mm x 26mm)
- Shipping Weight: 2.5 lbs. (1.1 kg)



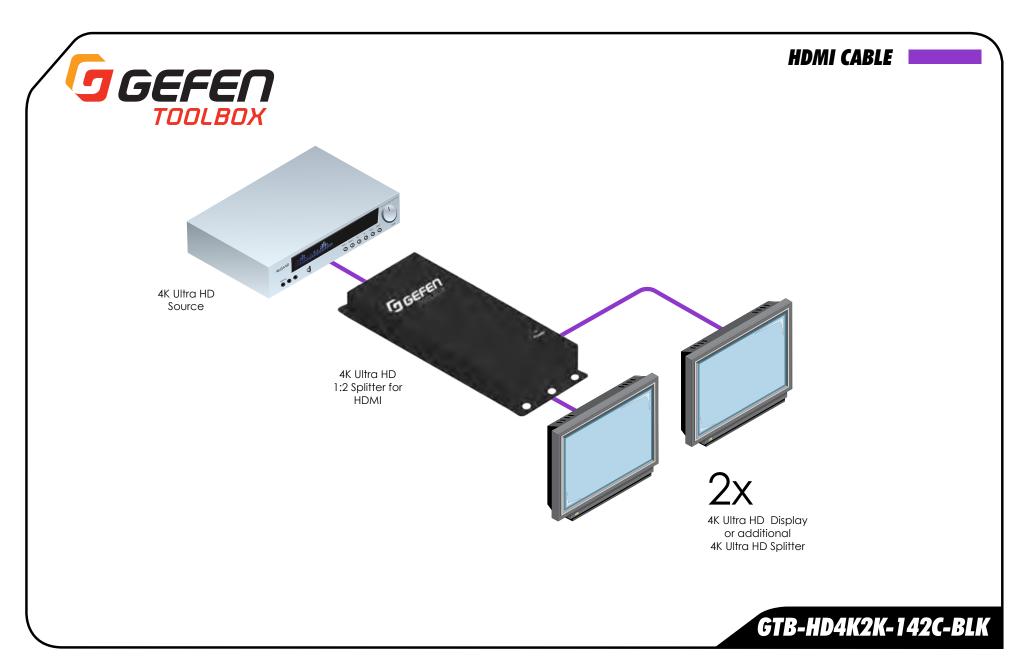




4K Cinema-DCI (4096 x 2160) 4K Ultra HD (3840 x 2160) 1080p Full HD (1920 x 1080)







GTB-HD4K2K-142C-BLK





4K Ultra HD 1:4 Splitter for HDMI

The Gefen GTB-HD4K2K-144C routes one Ultra HD source to four 4K Ultra HD displays. This HDCPcompliant product has been specifically designed to support multiple layers of splitting/cascading for flawless performance in large video distribution and signage applications, supporting hundreds of displays. Resolutions supported include 4K Ultra HD (3860 x 2160 at 60 Hz, 4:2:0 color space), 4K DCI (4096 x 2160 at 24 and 34 Hz), 1080p Full HD, and 1920x1200 (WUXGA). Deep Color, 3D, and multichannel digital audio including 7.1 channels of LPCM and HBR (High Bit Rate) lossless formats are also passed through. This product features Fast Switching Technology (FST). FST is a Gefen firmware implementation for HDMI products. It eliminates the lengthy HDMI authentication process, and allows disconnecting, reconnecting, or powering down HDTV displays without any of these activities causing picture loss in other displays within the same distribution system. The choice between built-in and passed-through EDIDs, and the ability to configure the EDID for 2-channel or multichannel operation help customize your AV system to meet its operational requirements. The Gefen 1:4 Splitter is a high performance and capable choice for any small or large 4K video distribution system.

How It Works

The Ultra HD 4K Splitter is connected between the Ultra Hi-Def source and four Ultra HD displays. One or all of its outputs can alternatively be connected to another Gefen splitter to create a cascaded system that distributes HDMI to a larger number of displays. Each splitter should also be connected to an AC outlet using the included power supply. Once the source and the displays are turned on and power is applied to the splitter(s), the 4K picture will appear on all connected screens without any further set-up.

















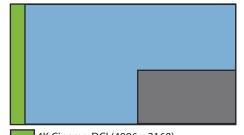
- Simultaneously displays an Ultra Hi-Def source on up to four Ultra HD displays
- Specifically designed to support 10 layers of splitting/cascading in large video distribution and signage applications, supporting hundreds of displays
- Supports resolutions up to 4K DCI (4096 x 2160 at 24 and 30 Hz), 4K Ultra HD (3860 x 2160 at 60Hz, 4:2:0 color space), 1080p Full HD, and 1920x1200 WUXGA
- Supports 12-bit Deep Color at 1080p
- 3DTV pass-through
- Lip Sync pass-through
- FST Technology speeds up HDCP authentication process
- EDID Management and Audio Mode selectors for rapid integration of source and displays
- Supports LPCM 7.1, Dolby® TrueHD, Dolby Digital® Plus, and DTS-HD Master Audio™
- Supports the use of DVI sources and DVI displays with HDMI-to-DVI adapters (not included)
- Field-upgradeable firmware using Mini-USB port
- Locking Power Supply • Surface-mountable

Specifications*

- Maximum Pixel Clock: 300 MHz
- HDMI Input Connector: (1) Type A 19-pin female, locking
- HDMI Output Connectors: (4) Type A 19-pin female, locking
- USB Port: (1) Mini-B
- Power Indicator: (1) LED, blue
- FST Switch: (1) 2- position slide-type
- Audio Switch: (1) 2-position slide-type
- EDID Switch: (1) 2-position slide-type
- DC Power Connector: (1) Locking type Power Supply: 5V DC
- Power Consumption: 5 Watts (max.)
- Operating Temperature: +32 to 104 °F (0 to +40 °C)
- Dimensions (W x H x D): 3.0" x 9.0" x 1.0" (76mm x 228mm x 26mm)
- Shipping Weight: 2.7 lbs. (1.2 kg)



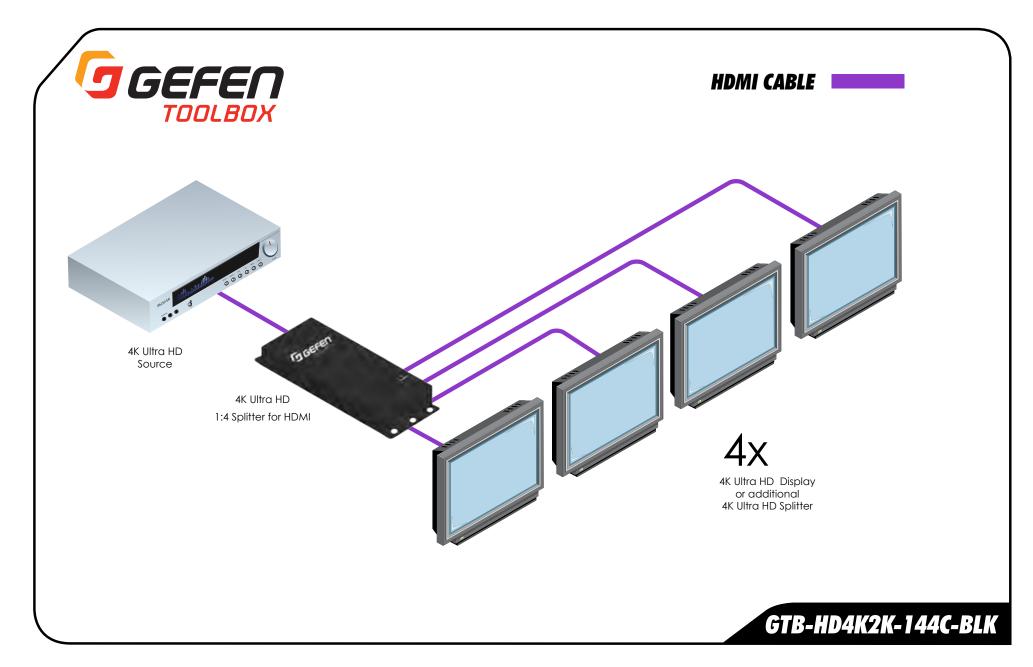












GTB-HD4K2K-144C-BLK





4K Ultra HD 1:8 Splitter for HDMI

The Gefen GTB-HD4K2K-148C routes one Ultra HD source to eight 4K Ultra HD displays. This HDCPcompliant product has been specifically designed to support 10 layers of splitting/cascading for flawless performance in large video distribution and signage applications, supporting hundreds of displays. Resolutions supported include 4K Ultra HD (3860 x 2160 at 60 Hz, 4:2:0 color space), 4K DCI (4096 x 2160 at 24 and 30 Hz), 1080p Full HD, and 1920x1200 (WUXGA). Deep Color, 3D, and multichannel digital audio including 7.1 channels of LPCM and HBR (High Bit Rate) lossless formats are also passed through. This product features Fast Switching Technology (FST), FST is a Gefen firmware implementation for HDMI products. It eliminates the lengthy HDMI authentication process, and allows disconnecting, reconnecting, or powering down HDTV displays without any of these activities causing picture loss in other displays within the same distribution system. The choice between built-in and passed-through EDIDs, and the ability to configure the EDID for 2-channel or multichannel operation help customize your AV system to meet its operational requirements. The Gefen 1:8 Splitter is the perfect choice for any small or large 4K video distribution system.

How It Works

The Ultra HD 4K Splitter is connected between the Ultra Hi-Def source and eight Ultra HD displays. One or all of its outputs can alternatively be connected to other Gefen splitters to create a cascaded system that distributes HDMI to a larger number of displays. Each splitter should also be connected to an AC outlet using the included power supply. Once the source and the displays are turned on and power is applied to the splitter(s), the 4K picture will appear on all connected screens without any further set-up.



















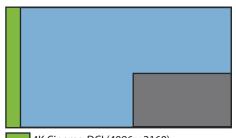
- Simultaneously displays an Ultra Hi-Def source on up to eight Ultra HD displays
- Specifically designed to support 10 layers of splitting/cascading in large video distribution and signage applications, supporting hundreds of displays
- Supports resolutions up to 4K DCI (4096 x 2160 at 24 and 30 Hz), 4K Ultra HD (3860 x 2160 at 60Hz, 4:2:0 color space),1080p Full HD, and 1920x1200 WUXGA
- Supports 12-bit Deep Color at 1080p
- 3DTV pass-through
- Lip Sync pass-through
- FST Technology speeds up HDCP authentication process
- EDID Management and Audio Mode selectors for rapid integration of source and display
- Supports LPCM 7.1, Dolby® TrueHD, Dolby Digital® Plus, and DTS-HD Master Audio™
- Supports the use of DVI sources and DVI displays with HDMI-to-DVI adapters (not included)
- Field-upgradeable firmware using Mini-USB port
- Locking Power Supply
- Surface-mountable

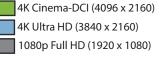
Specifications*

- Maximum Pixel Clock: 300 MHz
- HDMI Input Connector: (1) Type A 19-pin female, locking
- HDMI Output Connectors: (8) Type A 19-pin female, locking
- USB Port: (1) Mini-B
- Power Indicator: (1) LED, blue
- FST Switch: (1) 2-position slide-type
- Audio Switch: (1) 2-position slide-type
- EDID Switch: (1) 2-position slide-type
- DC Power Connector: (1) Locking type
- Power Supply: 5V DC Power Consumption: 13 Watts (max.)
- Operating Temperature: +32 to 104 °F (0 to +40 °C)
- Dimensions (W x H x D): 4.5" x 10.4" x 1.0" (115mm x 264mm x 26mm)
- Shipping Weight: 3 lbs. (1.4 kg)



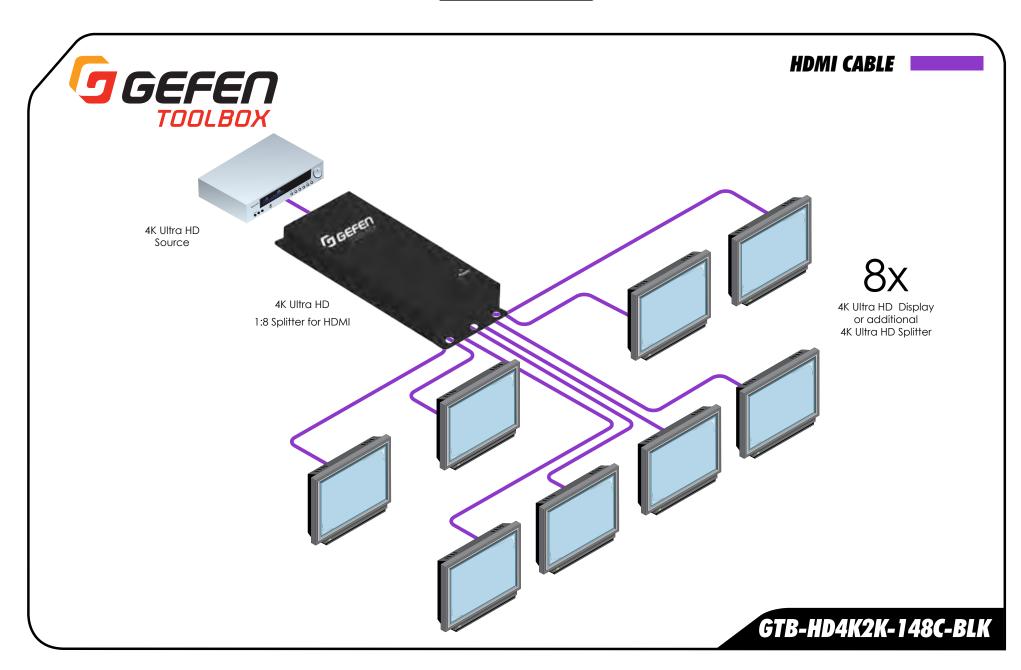








GTB-HD4K2K-148C-BLK



Scaler/Converters















Use an SDI source with an HDMI display or downstream equipment

The Gefen EXT-3G-HD-C converts audio and video from SDI to HDMI format, at resolutions up to 1080p Full HD. 3G-SDI, single link HD-SDI, and audio formats up to 8 channels of LPCM are supported. This product is fully compatible with the Gefen Syner-G™ software suite. The Gefen Syner-G™ is a powerful set of software tools specifically designed to help discover, configure/customize, manage, monitor, and upgrade Gefen products. The Gefen EXT-3G-HD-C's compact enclosure, while light enough to be held in place using double sided Velcro® tape, features an ISO standard 1/4-20 attachment provision as well as a detachable surface-mounting bracket. This, along with a flexible power input circuitry capable of accepting a wide range of DC voltages and a locking power supply connector, make the EXT-3G-HD-C ideal for cutting edge mobile A/V applications as well as high performance fixed installations.

How It Works

This product can be installed on camera gear via an industry-standard 1/4-20 attachment thread located on the bottom of the unit. It can also be surface-mounted using the included surface mounting bracket. The EXT-3G-HD-C is light and compact enough to be held in place using Velcro® if your particular installation does not allow for the two preferred methods of installation described above. Set the DIP switches as necessary. Connect an SDI cable between the input of the EXT-3G-HD-C and an SDI source. Connect the HDMI output of the Gefen converter to an HDMI display or other downstream equipment using a Gefen locking HDMI cable. Connect the included 12V DC power supply to the 3GSDI to HDMI Converter's power supply jack and to an available electrical outlet. To remove the power supply plug from the unit, disengage the lock by pulling back on its plastic sleeve. The power LED indicator will glow in blue to indicate that the unit is powered on. The HDMI Out LED indicator will glow in green to indicate that an active HDMI sink is present. Use the USB Mini-B port with Gefen Syner-G[™] software suite for performing firmware updates. See the user manual for details.



This product has been specifically designed for use with the Gefen Syner-G™ Software Suite, available for download at www.gefen.com. The Gefen Syner-G™ interfaces with the EXT-3G-HD-C via its USB Mini-B port and simplifies in-field firmware updates.



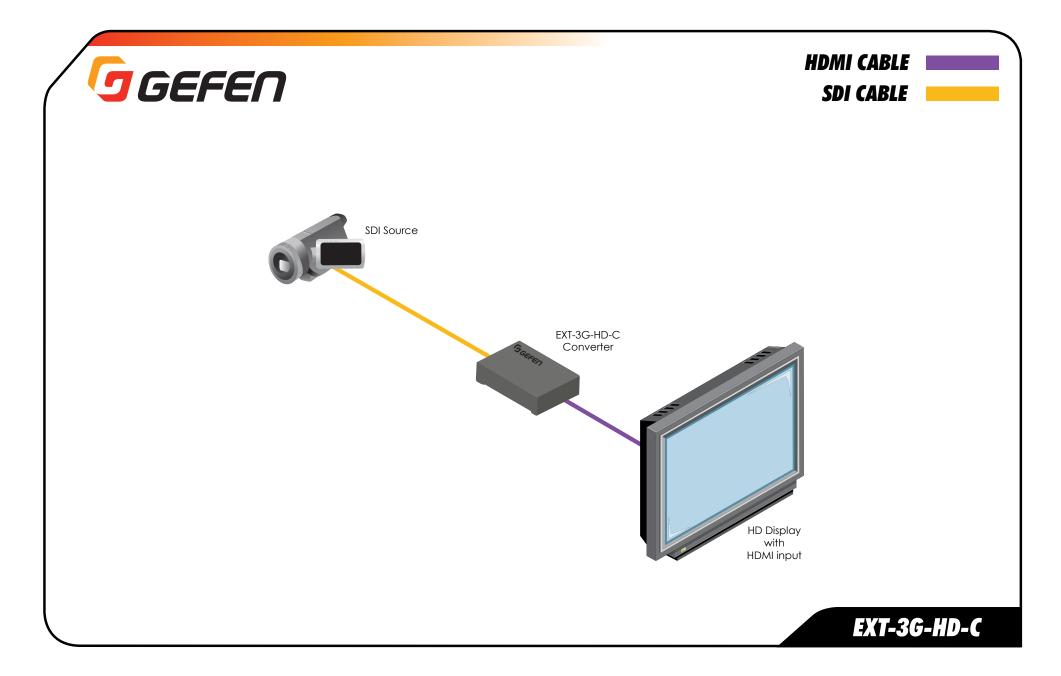




Features*

- Converts SDI to HDMI
- Input resolutions up to 1080p60
- Output resolutions up to 1080p Full HD
- HDMI (YCbCr 4:4:4) or DVI (RGB 4:4:4) output modes
- Supports 3G-SDI Levels A and B, Single-Link HD-SDI, and SD-SDI
- Supports up to 10 bit color on input and output
- Up to LPCM 7.1 audio support
- Field configurable via DIP switch settings
- Mini USB port for use with Gefen Syner-G[™] for in-field firmware updates
- Wide power supply operating range (6V to 24V DC)
- Locking power supply connector
- 1/4-20 industry-standard camera gear attachment thread on bottom
- Surface-mountable using the included detachable bracket

- Maximum Pixel Clock: 150 MHz
- Maximum TMDS Clock: 225 MHz
- Video Input Connector: (1) SDI BNC-type, female
- Video Output Connector: (1) HDMI Type A 19-pin, female, locking
- USB Connector: (1) Mini-B
- Configuration Switches: (5) DIP-type
- HDMI Indicator: (1) LED, green
- Power Indicator: (1) LED, blue
- Power Supply Connector: (1) 3-pin, locking
- Power Supply: 12V DC nominal (6V to 24V DC operating range)
- Power Consumption: 2W maximum
- Operating Temperature: +32 to +122 °F (0 to +50 °C)
- Operating Humidity: 5% to 90% RH, non-condensing
- Storage Temperature: -4 to +185 °F (-20 to +85 °C)
- Storage Humidity: 0% to 95% RH, non-condensing
- MTBF: 50000 hours
- Dimensions (excluding connectors, W x H x D):
- 2.9" x 1.2" x 2.3" (74mm x 30mm x 59mm)
- Net Unit Weight: 0.3 lbs (0.15 kg)















Use an HDMI source with an SDI display or downstream equipment

The Gefen HD-3G-C converts audio and video from HDMI to 3G-SDI and single link HD-SDI. Resolutions up to 1080p Full HD and audio formats up to 8 channels of LPCM are supported. This product is fully compatible with the Gefen Syner-G™ software suite. The Gefen Syner-G™ is a powerful set of software tools specifically designed to help discover, configure/customize, manage, monitor, and upgrade Gefen products. The Gefen EXT-HD-3G-C′s compact enclosure, while light enough to be held in place using double sided Velcro® tape, features an ISO standard 1/4-20 attachment provision as well as a detachable surface-mounting bracket. This, along with a flexible power input circuitry capable of accepting a wide range of DC voltages and a locking power supply connector, make the EXT-HD-3G-C ideal for cutting edge mobile A/V applications as well as high performance fixed installations.

How It Works

This product can be installed on camera gear via an industry-standard 1/4-20 attachment thread located on the bottom of the unit. It can also be surface-mounted using the included surface mounting bracket. The EXT-HD-3G-C is light and compact enough to be held in place using Velcro® if your particular installation does not allow for the two preferred methods of installation described above. Set the DIP switches as necessary. Connect an SDI cable between the output of the EXT-HD-3G-C and an SDI display or other downstream equipment. Connect the HDMI source to the HDMI input of the EXT-HD-3G-C using the included Locking HDMI cable. Connect the included 12V DC power supply to the 3GSDI to HDMI Converter's power supply jack and to an available electrical outlet. To remove the power supply plug from the unit, disengage the lock by pulling back on its plastic sleeve. The power LED indicator will glow in blue to indicate that the unit is powered on. The HDMI In LED indicator will glow in areen to indicate that an active HDMI source is present. Use the USB Mini-B port with Gefen Syner-G[™] software suite for EDID customization as well as performing firmware updates. See the user manual for details.

NOTE: The Gefen EXT-HD-3G-C is not compatible with HDCP encoded HDMl content. If the input signal is HDCP-encoded, there will be no SDI output.



This product has been specifically designed for use with the Gefen Syner-G™ Software Suite, available for download at www.gefen.com. In addition to all the configuration settings that are available via the DIP Switches, the Gefen Syner-G™ simplifies in-field firmware updates and provides the ability to configure this converter for custom EDID settings.







Features*

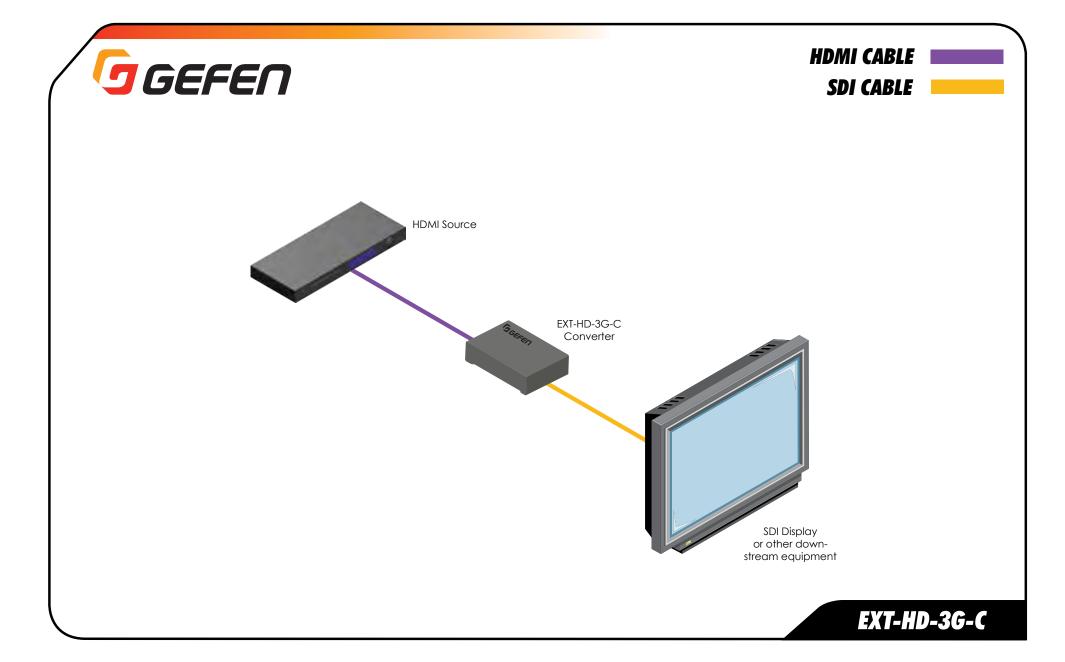
- Converts HDMI to SDI
- $\bullet\,$ Input resolutions up to 1920 x 1200 (WUXGA) and 1080p Full HD
- Output resolutions up to 1080p60
- Supports HDMI 12 bit color and SDI 10-bit color
- Supports Color Spaces: 4:4:4 (RGB and YCbCr) and 4:2:2 (YCbCr)
- Supports 3G-SDI Levels A and B
- Up to LPCM 7.1 audio support
- \bullet Field configurable via DIP switch settings or Gefen Syner-G $^{\scriptscriptstyle{\text{TM}}}$ software
- Gefen Syner-G[™] simplifies in-field firmware updates and advanced EDID management
- Mini USB port for use with Gefen Syner-G[™]
- Wide power supply operating range (6V to 24V DC)
- Locking power supply connector
- 1/4-20 industry-standard camera gear attachment thread on bottom
- Surface-mountable using the included detachable bracket

Specifications*

- Maximum Pixel Clock: 150 MHz
- Maximum TMDS Clock: 225 MHz
- Video Input Connector: (1) HDMI Type A 19-pin, female, locking
- Video Output Connector: (1) SDI BNC-type, female
- USB Connector: (1) Mini-B
- Configuration Switches: (3) DIP-type
- HDMI Indicator: (1) LED, green
- Power Indicator: (1) LED, blue
- Power Supply Connector: (1) 3-pin, locking
- Power Supply: 12V DC nominal (6V to 24V DC operating range)
- Power Consumption): 3W maximum
- Operating Temperature: +32 to +122 °F (0 to +50 °C)
 Operating Humidity: 5% to 90% RH, non-condensing
- Storage Temperature: -4 to +185 °F (-20 to +85 °C)
- Storage Temperature: -4 to +185 °F (-20 to +85 °F)
 Storage Humidity: 0% to 95% RH, non-condensing
- MTBF: 50000 hours
- Dimensions (excluding connectors, W x H x D):

2.9" x 1.2" x 2.3" (74mm x 30mm x 59mm)

• Net Unit Weight: 0.3 lbs (0.15 kg)





HDMI & VGA to 3GSDI Scaler/Converter



Switch video and audio from an HDMI and a VGA source, scale the picture, and output it to an SDI device

The Gefen HDVGA-3G-SC scales and converts video from an HDMI or a VGA source to SDI formats, including 3G-SDI and single link HD-SDI. It can also embed HDMI audio or analog L/R audio into the SDI stream. Video can be scaled up to 1080p Full HD. An intuitive and comprehensive on-screen display (OSD) menu allows easy set-up and control. This product can be configured and updated using the Gefen Syner-G[™] software suite. The Gefen Syner-G[™] is a powerful set of software tools specifically designed to help discover, configure/ customize, manage, monitor, and upgrade Gefen products. Wide power supply operating range of 6V to 24V DC offers installation flexibility for mobile use, in complex studio systems with a common power supply, and with remotely located power sources. A locking power supply connector, small footprint, and a surface-mountable enclosure facilitate easy and secure installation.

How It Works

Use the included HDMI and VGA cables to connect an HDMI source to the HDMI input and/or a VGA source to the VGA input. If you will be embedding analog L/R audio into the SDI stream, connect the included 3.5mm mini-stereo cable from the source to the L/R audio input. Connect an SDI display or other downstream equipment to the BNC video connector output. Connect the included 12V DC power supply to the unit and to an available electrical outlet. The power LED will glow in blue once the power supply is plugged in. Once the unit is powered-on, the HDMI and VGA buttons can be used to select the desired input. Once an input is selected, the corresponding LED will glow in green. To bring up the On-Screen Display (OSD), press the Menu button. Use the Up and Dn (down) buttons to navigate through the various functions of the OSD.



This product has been specifically designed for use with the Gefen Syner-GTM Software Suite, available for download at

www.gefen.com In addition to all the configuration settings that are available from the On Screen Display, the Gefen Syner-G™ simplifies in-field firmware updates and provides the ability to configure this scaler/converter for custom input timings.







EXT-HDVGA-3G-SC



Features*

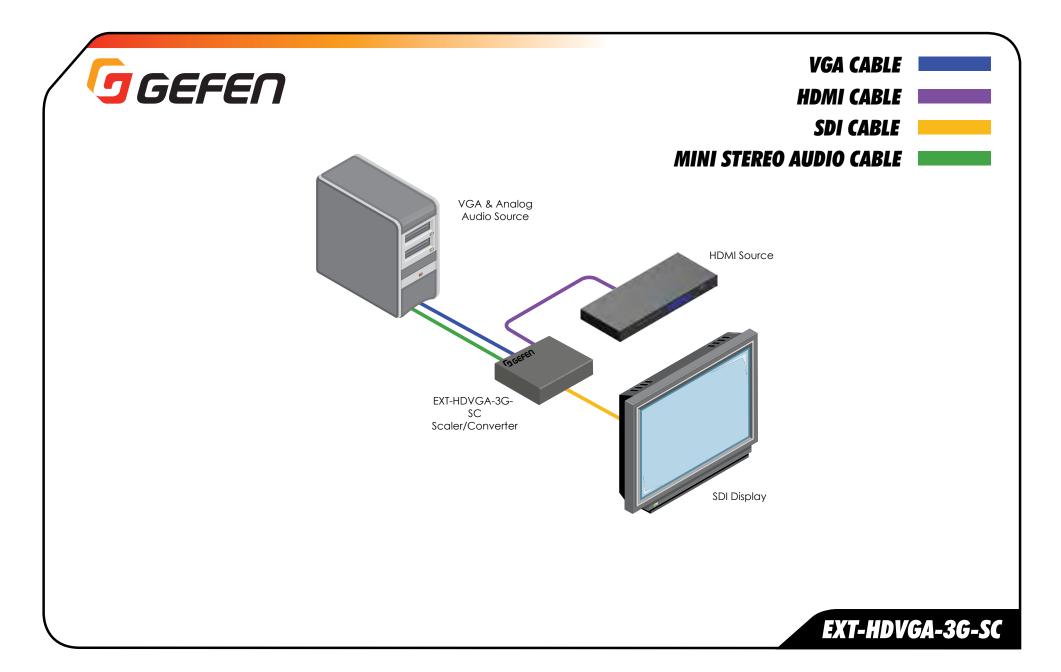
- Converts and scales HDMI and VGA and L/R analog audio to SDI
- Input resolutions up to 1920 x 1200 (WUXGA) and 1080p60
- Output resolutions up to 1080p60
- On-screen display (OSD) menu allows easy set-up and control
- Aspect Ratio Control: Full Screen, Panoramic, Letter/Pillar, Extract/Crop
- Test Pattern Generator for quick system configuration
- Embeds 2-channel analog stereo audio in SDI signal (VGA Input only)
- Up to LPCM 7.1 audio support (HDMI input only)
- Gefen Syner-G[™] simplifies in-field firmware updates and advanced EDID management including custom input timings
- USB port for use with Gefen Syner-G™
- Wide power supply operating range (6V to 24V DC)
- Locking power supply connector
- Surface-mountable

Specifications*

- Maximum Pixel Clock HDMI and VGA Inputs: 165 MHz
- Maximum Pixel Clock SDI Output: 150 MHz
- Maximum TMDS Clock: 225 MHz
- Video Input Connectors: (1) HDMI: Type A 19-pin, female, locking
 - (1) VGA: HD-15, female
- Audio Input Connector: (1) 3.5mm mini-stereo jack
- Video Output Connector: (1) SDI, BNC-type, female
- USB Connector: (1) Mini-B
- Input Select/Menu/Navigation Switches: (3) tact-type
- HDMI Indicator: (1) LED, green
- VGA Indicator: (1) LED, green
- Power Indicator: (1) LED, blue
- Power Supply Connector: (1) 3-pin, locking
- Power Supply: 12V DC nominal (6V to 24V DC operating range)
- Power Consumption: 5W maximum
- Operating Temperature: +32 to +122 °F (0 to +50 °C)
- Operating Humidity: 5% to 90% RH, non-condensing
- Storage Temperature: -4 to +185 °F (-20 to +85 °C)
- Storage Humidity: 0% to 95% RH, non-condensing
- MTBF: 50000 hours
- Dimensions (excluding connectors, W x H x D):

5.6" x 1.2" x 3.7" (141mm x 30mm x 93mm)

Net Unit Weight: 0.5 lbs (0.23 kg)









Scale and convert video from a VGA source for use with a DVI Display $\begin{tabular}{ll} \end{tabular} \begin{tabular}{ll} \end{tabular}$

The Gefen EXT-VGA-DVI-SC scales and converts video from a VGA source to a DVI output. Video can be scaled up to 1080p Full HD and 1920 x 1200 (WUXGA). An intuitive and comprehensive on-screen display (OSD) menu allows easy set-up and control. This product can be configured and updated using the Gefen Syner- $G^{\,\text{\tiny TM}}$ software suite. The Gefen Syner- $G^{\,\text{\tiny TM}}$ is a powerful set of software tools specifically designed to help discover, configure/customize, manage, monitor, and upgrade Gefen products. Wide power supply operating range of 6V to 24V DC offers installation flexibility for mobile use, in complex studio systems with a common power supply, and with remotely located power sources. A locking power supply connector, small footprint, and a surface-mountable enclosure facilitate easy and secure installation.

How It Works

Use the included VGA cable to connect a VGA source to the VGA input. Use a DVI cable to connect a DVI display to the DVI output. Connect the included 12V DC power supply to the unit and to an available electrical outlet. The power LED will glow in blue once the power supply is plugged in. Once the unit is connected, powered on, and displaying video, press the Menu button to bring up the On-Screen Display (OSD). The Up and Dn (down) buttons are used to navigate through the various functions of the OSD.



This product has been specifically designed for use with the Gefen Syner-G™ Software Suite, available for download at www.aefen.com

In addition to all the configuration settings that are available from the On Screen Display, the Gefen Syner-G™ simplifies in-field firmware updates and provides the ability to configure this scaler/converter for custom input timings.

Features*

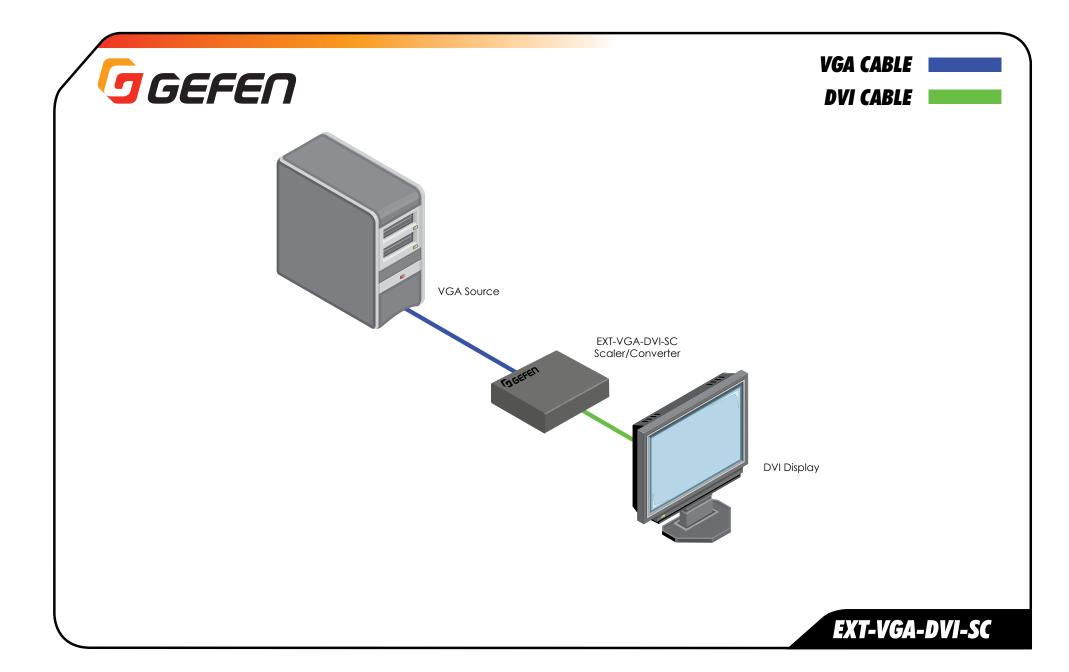
- Converts and scales VGA to DVI
- Input resolutions up to 1920 x 1200 (WUXGA)
- Output resolutions up to 1080p60 and 1920 x 1200 (WUXGA)
- On-screen display (OSD) menu allows easy set-up and control
- Aspect Ratio Control: Full Screen, Panoramic, Letter/Pillar, Extract/Crop
- Test Pattern Generator for quick system configuration
- Gefen Syner-G[™] simplifies in-field firmware updates and advanced EDID management including custom input timings
- USB port for use with Gefen Syner-G™
- Wide power supply operating range (6V to 24V DC)
- Locking power supply connector
- Surface mountable

Specifications*

- Maximum Pixel Clock: 165 MHz
- Maximum TMDS Clock: 165 MHz
- Video Input Connector: (1) VGA HD-15, female
 Video Output Connectors: (1) DVI-I, 29-pin, female (digital only)
- USB Connector: (1) Mini-B
- Menu/Navigation Switches: (3) tact-type
- Power Indicator: (1) LED, blue
- Power Supply Connector: (1) 3-pin, locking
- Power Supply: 12V DC nominal (6V to 24V DC operating range)
- Power Consumption): 2W maximum
- Operating Temperature: +32 to +122 °F (0 to +50 °C)
- Operating Humidity: 5% to 90% RH, non-condensing
- Storage Temperature: -4 to +185 °F (-20 to +85 °C)
- Storage Humidity: 0% to 95% RH, non-condensing
- MTBF: 50000 hours
- Dimensions (excluding connectors, W x H x D):

4.9" x 1" x 3.2" (123mm x 26mm x 82mm)

• Unit Weight: 0.4 lbs. (0.2kg)









VGA & Audio to HDMI Scaler/Converter





Scale and convert video and audio from a VGA source for use with an HDMI Display

The Gefen EXT-VGAA-HD-SC scales and converts video from a VGA source to digital video from an HDMI output. It can also embed analog L/R audio into HDMI. Video can be scaled up to 1080p Full HD and 1920 x 1200 (WUXGA). An intuitive and comprehensive on-screen display (OSD) menu allows easy set-up and control. This product can be configured and updated using the Gefen Syner-G[™] software suite. The Gefen Syner-G[™] is a powerful set of software tools specifically designed to help discover, configure/customize, manage, monitor, and upgrade Gefen products. Wide power supply operating range of 6V to 24V DC offers installation flexibility for mobile use, in complex studio systems with a common power supply, and with remotely located power sources. A locking power supply connector, small footprint, and a surface-mountable enclosure facilitate easy and secure installation.

How It Works

Use the included VGA cable to connect a VGA source to the VGA input. Connect the included 3.5mm mini-stereo cable from the source to the L/R audio input. Use a Gefen locking HDMI cable to connect a display to the HDMI output. Connect the included 12V DC power supply to the unit and to an available electrical outlet. The power LED will glow in blue once the power supply is plugged in. Once the unit is connected, powered on, and displaying video, press the Menu button to bring up the On-Screen Display (OSD). The Up and Dn (down) buttons are used to navigate through the various functions of the OSD.



designed for use with the Gefen Syner-GTM Software Suite, available for download at

In addition to all the configuration settings that are available from the On Screen Display, the Gefen Syner-G™ simplifies in-field firmware updates and provides the ability to configure this scaler/converter for custom input timings.

- Converts and scales VGA and L/R analog audio to HDMI
- Input resolutions up to 1920 x 1200 (WUXGA)
- Output resolutions up to 1080p60 and 1920 x 1200 (WUXGA)
- On-screen display (OSD) menu allows easy set-up and control
- Aspect Ratio Control: Full Screen, Panoramic, Letter/Pillar, Extract/Crop
- Test Pattern Generator for quick system configuration
- Embeds 2-channel analog stereo audio in HDMI signal
- Gefen Syner-G[™] simplifies in-field firmware updates and advanced EDID management including custom input timings
- USB port for use with Gefen Syner-G™
- Wide power supply operating range (6V to 24V DC)
- Locking power supply connector
- Surface mountable

Specifications*

- Maximum Pixel Clock: 165 MHz
- Maximum TMDS Clock: 225 MHz
- Video Input Connector: (1) VGA HD-15, female
- Video Output Connector: (1) HDMI Type A 19-pin, female, locking
- Audio Input Connector: (1) 3.5mm mini-stereo jack
- USB Connector: (1) Mini-B
- Menu/Navigation Switches: (3) tact-type
- Power Indicator: (1) LED, blue
- Power Supply Connector: (1) 3-pin, locking
- Power Supply: 12V DC nominal (6V to 24V DC operating range)
- Power Consumption: 2.6W maximum
- Operating Temperature: +32 to +122 °F (0 to +50 °C)
- Operating Humidity: 5% to 90% RH, non-condensing
- Storage Temperature: -4 to +185 °F (-20 to +85 °C)
- Storage Humidity: 0% to 95% RH, non-condensing • MTBF: 50000 hours
- Dimensions (excluding connectors, W x H x D):

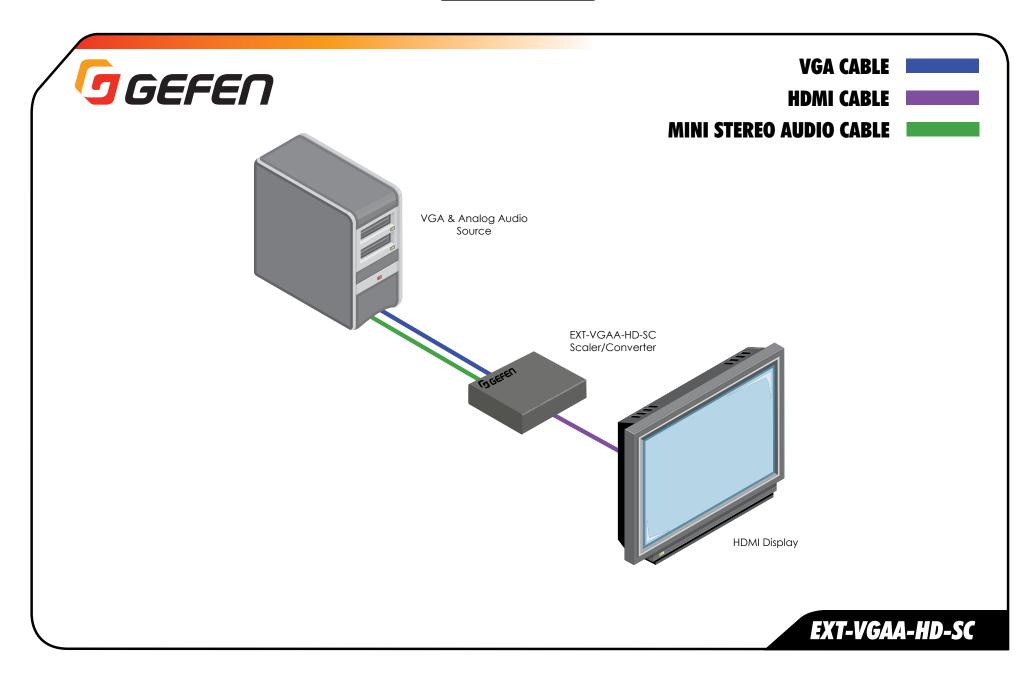
4.9" x 1" x 3.2" (123mm x 26mm x 82mm)

• Net Unit Weight: 0.4 lbs. (0.2kg)







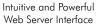


Multi-Format Processor













Switch, convert, and scale today's most advanced and legacy AV

The Gefen EXT-MFP Multi-Format Audio/Video Processor is a compact and powerful presentation switcher with cutting edge format conversion and scaling abilities. It supports input and output resolutions up to 1080p Full HD and 1920 x 1200 (WUXGA), with HDCP. Its unique features include an intuitive and elegant web server interface, an easy-to-use On Screen Display (OSD), IP (Telnet and UDP) control, RS-232 control, IR control, independently password-protected user and administrator access, advanced EDID management, a wide variety of video inputs including Mac and PC compatible DisplayPort, independent and configurable audio and video routing, input selection via contact closure, assignable input naming, and a compact form factor that can be surface or rack mounted, or placed on a shelf. The EXT-MFP features full compatibility with the Gefen Syner-G™ software, including Discovery, Show-Me, and IP configuration. It is a complete and cost-effective solution for managing video and audio in classrooms, conference rooms, command centers, and as the backbone of any other high performance system that needs to interface with multiple sources, AV formats, and resolutions in a dynamic environment.

How It Works

If this product will be placed on a shelf, attach the included rubber feet to the bottom of the unit. If two units are to be mounted in a standard 19-inch wide rack, use the Gefen EXT-RACK-1U-GRY rack tray (available separately). Attach the EXT-MFP to the rack tray using the two machine screws provided. It can also be mounted on a surface using the L-brackets provided. The following inputs are available on the EXT-MFP: HDMI, DVI, DisplayPort, VGA, and Composite Video. Connect them to compatible AV or video sources, using high quality cables specific to each format and resolution. Connect up to two displays, projectors, or downstream equipment to the HDMI and DVI outputs. Connect up to two digital audio sources to TOSLINK® Optical and S/PDIF Coaxial inputs. Connect up to two analog audio sources to the L/R 1 and L/R 2 inputs using 3.5mm mini-stereo cables. Connect a pair of L/R RCA cables from Audio Out to the input of a 2-channel power amplifier. To select inputs via contact closure, wire the relays from an automation control device to the 6-pin Phoenix quick-disconnect plug and connect it to the Input Control port of the Multi-Format Processor. This product can be set up and operated via the front panel push buttons or the included IR remote control, in conjunction with its on screen menu system. It can also be configured and controlled though its web server interface, Telnet, UDP, or RS-232. To control the unit via IR, point the handheld remote towards the front panel of the unit. If the processor is not located within the line of sight of the handheld remote, connect a Gefen EXT-RMT-EXTIRN IR Extender to the IR Ext port and install it in a location where it can receive the IR commands. To facilitate independent IR control of multiple units installed in close proximity, the remote and the EXT-MFP can be configured to work with four distinct sets of IR codes. For IP control, connect a CAT-5 cable from your Local Area Network to the IP Control port, For RS-232 control, connect a DB-9 cable from the RS-232 port to an automation control device. Connect the included power supply to the 12V DC power supply iack and to an available electrical outlet. Press and release the Power button to toggle between On and Standby modes. When the processor is on, the Power LED will glow in blue. A red power LED indicates that the unit is in Standby. The audio/video LED indicators on the front of the processor will glow bright green when the corresponding input is selected.











Features*

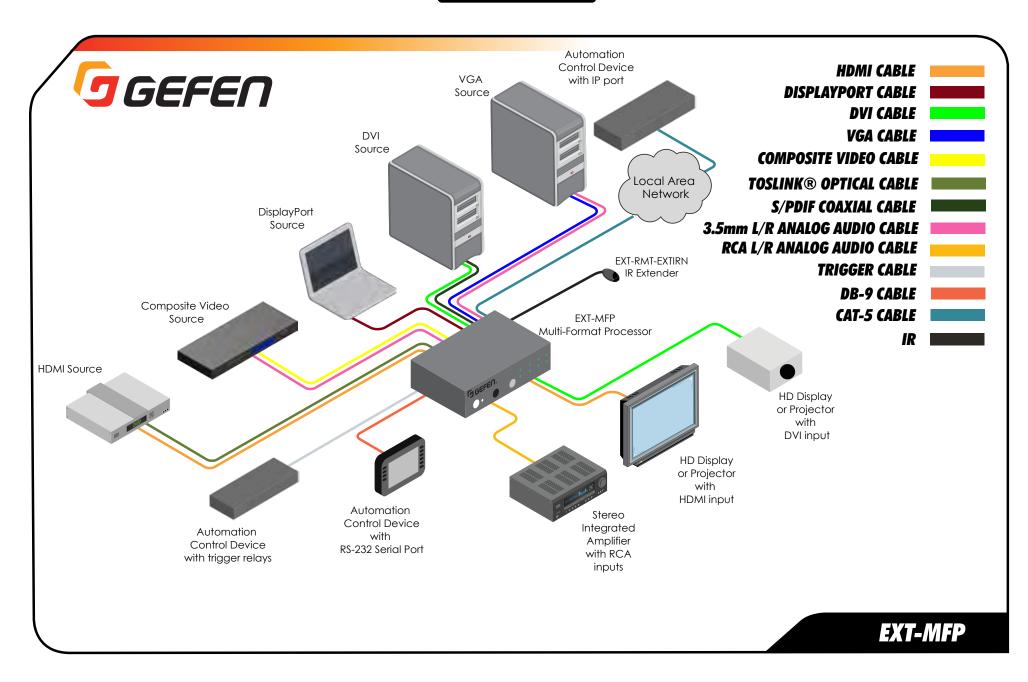
- Independent and configurable audio and video routing
- Supports input and output resolutions up to 1080p Full HD & 1920 x 1200 (WUXGA)
- HDCP compliant
- HDMI, DisplayPort, DVI, VGA, and Composite Video inputs
- DisplayPort input is compatible with Mac and PC computers
- TOSLINK® optical digital, S/PDIF coaxial digital, and two analog L/R audio inputs
- Each audio source can be independently assigned to any video source
- Audio sources can be temporarily switched away from their assigned video sources
- On-screen display (OSD) menu and web server interface allow easy set-up & control
- IP control via Telnet, UDP, and web server interface
- RS-232 Serial interface for use with an automation control system
- Independent IR control of up to four units in proximity, using distinct command sets Password-protected user and administrative access
- Advanced EDID Management for rapid integration of sources and displays
- Assignable input naming
- System Configuration Upload/Download function
- Plug-and-Play installation with little to no set-up
- Locking power supply connector
- Rack-mountable using EXT-RACK-1U-GRY (available separately)
- Surface-mountable using the included L-brackets

Specifications*

- Maximum Pixel Clock: 165 MHz
- Maximum TMDS Clock: 225 MHz
- Video Input Connectors
 -) HDMI Type A 19-pin, female, locking
 - 1) DisplayPort, 20-pin, female
 - (1) DVI-I, 29-pin, female, digital only
 - (1) VGA HD-15, female
- (1) Composite, RCA-type, female
- Audio Input Connectors:
- (2) 3.5mm mini-stereo jack
- (1) TOSLINK® optical, female
- (1) S/PDIF Coaxial, RCA-type, female
- Video Output Connectors:
-) HDMI Type A 19-pin, female, locking (1) DVI-I, 29-pin, female, digital only
- Audio Output Connectors: RCA x 2
- USB Connector: (1) Mini-B (factory use only)
- IR Sensor: (1) on front panel
- IR Extender Port: (1) 3.5mm mini-stereo jack
- IR Extender Type: EXT-RMT-EXTIRN
- Input Selection Contact Closure Connector: 6-pin Phoenix quick-disconnect
- IP Port: (1) RJ-45 jack
- RS-232 Port: (1) DB-9, female
- Input Select Button: (1) tact-type
- Power/Stand-by Button: (1) tact-type
- Power/Standby Indicator: (1) bi-color LED, blue/red
- Video Input Indicators: (5) LEDs, green
- Audio Input Indictaors: (5) LEDs, green
- Power Supply Connector: (1) 3-pin, locking
- Power Supply: 12V DC
- Power Consumption: 8.5W maximum
- Operating Temperature: +32 to +122 °F (0 to +50 °C)
- Operating Humidity: 5% to 90% RH, non-condensing • Storage Temperature: -4 to +185 °F (-20 to +85 °C)
- Storage Humidity: 0% to 95% RH, non-condensing
- Dimensions (excluding buttons & connectors, W x H x D):

8.4" x 1.6" x 8.5" (213mm x 41mm x 216mm)

• Net Unit Weight: 3.2 lbs (1.5 kg)



Multiview Switcher





4x1 DVI KVM Multiview Switcher





EXT-DVIK-MV-41

Interface four computers to one dual-screen workstation

The EXT-DVIK-MV-41 is the perfect solution for controlling four computers from a dual monitor workstation. The operator can observe up to 4 pictures on one screen, while a second monitor can be switched to display the picture that needs closer attention. This product is HDCP compliant, supporting input and output resolutions up to 1920 x 1200 (WUXGA) and 1080p Full HD. The two front panel USB ports and/or Bi-Directional audio (mic and headphones/speaker) can be independently routed from any of the four computers to the workstation. Four default factory presets provide most commonly used arrangements of windows on a display, including single window output, Picture-In-Picture, Quad view, and Picture-And-Picture. The 4x1 DVI KVM Multiview Switcher is controllable via front panel, keyboard/mouse, and RS-232. An intuitive on-screen Graphical User Interface simplifies system configuration and operation. Up to 8 DVI KVM Switchers can be daisy-chained together to create an elaborate 32 computer workstation. This product is field firmware upgradable with the Gefen Syner-G™ software suite.

How It Works

This product can be placed on a shelf or mounted in a standard 19-inch rack. Connect DVI video output, USB, L/R audio output, and microphone input from up to four computers to DVI-D In, USB Host, L/R In, and Mic ports for Source 1 through 4 on the back panel of EXT-DVIK-MV-41. Connect up to two DVI displays to the Video A DVI-D and Video B DVI-D Outputs. Connect a pair of headphones or powered speakers to the L/R Out audio output. Connect a mono PC microphone to the Mic jack. Connect a keyboard and a mouse to the Workstation USB ports on the back of the unit. Two USB peripherals can be connected to the USB ports on the front of the switcher. If rack-mounting the unit, securely connect the Grounding Terminal to the system ground by 16 AWG or larger diameter copper wiring. Connect the included 12V DC power supply to the unit's 12V DC power supply jack and to an available electrical outlet. To power on the KVM switcher by flipping the Main switch to on position. The switcher can be controlled by using the front panel push-buttons, keyboard/mouse, or via RS-232. To control the switcher via RS-232, connect an automation controller to RS-232 In. To cascade the KVM Switchers together to create an expanded system, connect the RS-232 output from the first unit to the RS-232 input of the next unit until all units are daisy-chained. Up to 8 EXT-DVIK-MV-41 Switchers can be connected together to form an elaborate 32 computer system controlled by a single set of keyboard and mouse. The Power LED on the front of the switcher will glow blue when the unit is powered-on. The Video, Audio, and USB LED indicators will glow in blue when the corresponding input is selected.



This product has been specifically designed for use with the Gefen Syner-G™ Software Suite, available for download at www.gefen.com. The Gefen Syner-G™ interfaces with the EXT-DVIK-MV-41 via USB and simplifies in-field firmware updates.





Features*

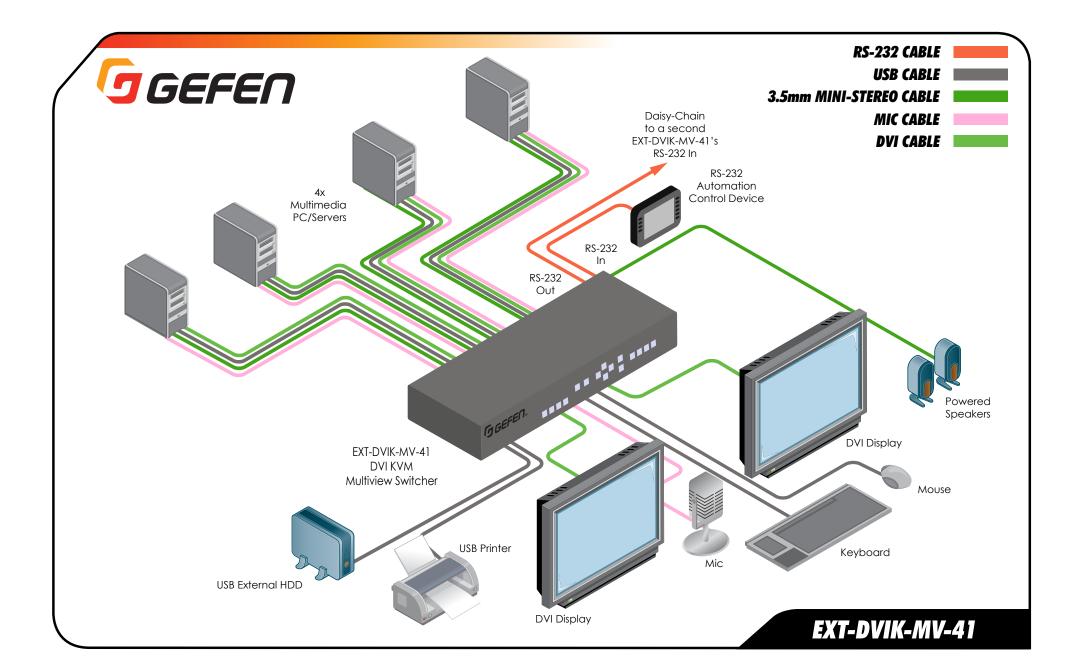
- Dual Screen Workstation Set-up: Full Screen and Multiview
- 4 Multiview Modes: Full Screen, Quad-View, PIP (Picture-In-Picture), and PAP (Picture-And-Picture)
- Input and Output resolutions up to 1920 x 1200 (WUXGA) and 1080p Full HD
- HDCP 1.4 Compliant
- Controlled via front panel, keyboard/mouse, and RS-232.
- Comprehensive and easy-to-use On Screen Display.
- Supports cascading of up to 8 units to create a 32 computer system controlled from one keyboard/mouse workstation.
- Firmware update via USB port using the Gefen Syner- $G^{\scriptscriptstyle\mathsf{TM}}$ software
- Locking power supply connector
- Rack-mountable using the included brackets

Specifications*

- Maximum Pixel Clock: 165 MHz
- Maximum TMDS Clock: 225 MHz
- Video Input Connectors: (4) DVI-I, 29-pin, female (digital only)
- Video Output Connectors: (2) DVI-I, 29-pin, female (digital only)
- USB Connectors:
- Front Panel: (2) Type A, 5V DC at 1A maximum shared current Rear Panel: (2) Type A, 5V DC at 1A maximum shared current Rear Panel: (4) Type B
- Microphone Input: (1) 3.5mm mini-mono jack
- Microphone Outputs: (4) 3.5mm mini-mono jacks
- L/R Audio Inputs: (4) 3.5mm mini-stereo jacks
- L/R Audio Output: (1) 3.5mm mini-stereo jack
- RS-232 Input Port: (1) DB-9, female
- RS-232 Output Port: (1) DB-9, male
- Main Power Switch: (1) toggle, on back panel
- Chassis Ground Connection: (1) machine screw, on back panel
- Front Panel Controls: (10) tact-type, blue backlight, (6) tact-type
- Power Indicator: (1) LED, blue
- Video B Indicators: (4) LEDs, blue
- Audio Indicators: (4) LEDs, blue
- USB Indicators: (4) LEDs, blue
- Power Supply Connector: (1) 3-pin, locking
- Power Supply: 12V DC
- Power Consumption: 40W maximum
- Operating Temperature: +32 to +122 °F (0 to +50 °C)
- Operating Humidity: 5% to 90% RH, non-condensing
- Storage Temperature: -4 to +185 °F (-20 to +85 °C) • Storage Humidity: 0% to 95% RH, non-condensing
- MTBF: 50000 hours
- Dimensions (excluding connectors, W x H x D):

17.2" x 1.2" x 7.9" (437mm x 30mm x 200mm)

• Net Unit Weight: 3.7 lbs (1.6 kg)



Full Product Catalog

Digital Extenders	C1
DVI	C1
DVI and DVIKVM over CAT-5 / CAT-6	C1
DVI and DVIKVM over Fiber Optic	C1
HDMI	C1
Wireless	C1
HDMI over CAT-5	C1
HDMI over Fiber Optic	C1
USB and Audio Extenders over Fiber Optic and CAT-5 / CAT6	C1
DisplayPort over Fiber Optic and CAT-7	C1
DVI, HDMI and VGA over IP	C1
Video Wall Controllers, Multiview Switchers, Seamless Switchers, Seamless Matrix	C2
DVI and DisplayPort Switchers and Matrixes	C2
Single-Link DVI	C2
Single-Link DVI Dual-Link DVI	
	C2
Dual-Link DVI	
Dual-Link DVI DisplayPort	
Dual-Link DVI DisplayPort Detectives and Boosters.	
Dual-Link DVI DisplayPort Detectives and Boosters EDID Detectives	
Dual-Link DVI DisplayPort Detectives and Boosters EDID Detectives Boosters	C2 C2 C2 C2 C2 C2
Dual-Link DVI DisplayPort Detectives and Boosters. EDID Detectives. Boosters. Splitters, Converters and Scalers.	C2 C2 C2 C2 C2 C2 C2

Need help finding a product? Call the Gefen Sales Team at (800) 545-6900, or visit... www.gefen.com

Cables	C3
DVI Fiber Optic Integrated Cables	C3
HDMI Extreme Integrated Fiber Optic Cables	C3
DisplayPort Extreme Fiber Optic Cables	C3
Dual-Link DVI Cables	C3
Dual-Link DVI DLX Cables	C3
High-Speed HDMI Cables with Ethernet and Mono •LOK™	C3
DVI to HDMI Cables	C3
VGA and other Extenders	C3
Adapters and Couplers	C3
Accessories	C3
IR Extenders, Emitters and Rack Trays	C3
Gefen Digital Signage	C3
Gefen ToolBox Product Line	
Splitters, Switchers and Matrixes for HDMI - 4K Ultra HD	C4
HD Signal Generator	C4
4K Ultra HD HDBaseT™ Extenders	C4
USB 2.0 Extenders	C4
Scalers	
Daisy Chain Extender for HDMI	C4
Gefen TV Product Line	
Extenders for HDMI	
Converters, Scalers and Switchers	
Audio Splitters, Switchers and Converters)	C4
Gefen Pro Product Line	
Matrixes	C4
Extenders	C4

Digital Extenders		
DVI		
DVI and DVI-KVM over CAT-5 / EXT-CAT5-1600HD		
EXI-CAIS-1600HD	CAT5-1600HD Extends DVI with HDCP and USB 2.0 up to 200 feet away over two CAT-6a cables at resolutions reaching 1920 x 1200	
EXT-DVI-1CAT5-SR	DVI ELR Lite Extender over one CAT5	
EXI-DVI-ICAIS-3K	Extends any DVI source to a display up to 230 ft. away over CAT-6A cable	
EXT-DVIKVM-ELR	DVIKVM Extra Long Range Extender	
LXI-DVIKVM-LLK	Extends DVI and USB to a monitor, touch screen display, or digital signage application up to 330 ft using one Cat-5 cable	
EXT-DVI-1CAT5-ELR	DVI ELR Extender over one CAT5	
	Extends DVI over a single CAT-5 cable up to 495 feet (150 meters)	
DVI and DVI-KVM over Fiber Op		
EXT-DVI-1500HD	DVI-1500HD	
	Extends DVI up to 1650 feet (500 meters) over fiber optics cables.	
EXT-DVI-FMP	DVI FM Extender PLUS	
	Extends a DVI display up to 2000 feet using four-strand multi-mode LC fiber optic cable	
EXT-DVI-CP-FM10	DVI Fiber Optic (Pigtail Modules)	
	Extends DVI with HDCP up to 1000 feet using single-strand fiber optic cable to a supporting display at 1920 x1200	
EXT-DVI-FM15	DVI Fiber Optic (Dongle Modules)	
EVE DVI FARGEOR	Extends DVI up to 3300 feet to a display supporting resolutions up to 1920 x 1200 using a single-strand fiber optic cable	
EXT-DVI-FM2500	Dual Link DVI (Dongle Modules) Evande dual link DVI up to 2000 feet to a display supporting resolutions up to 2040 v 2400 using a true strand fiber exhibit	
EXT-DVI-FM500	Extends dual-link DVI up to 3300 feet to a display supporting resolutions up to 3840 x 2400 using a two-strand fiber cable DVI FM 500 Extender	
EXT-DVI-PMS00	Extends hi-res DVI up to 5,000 feet over 2 strand fiber optic cables	
EXT-DVI-FM1000	DVI FM 1000 Extender	
EXI DVI IMIOOO	Extends a DVI display up to 3,280 feet (1km) away using a single-strand SC-terminated fiber optic cable	
EXT-DVI-3600HD	DVI 3600HD Optical DVI/ USB 2.0 / RS-232/ Audio Extender	
	Extends DVI, USB 2.0, analog audio, and RS-232 from a computer to a remote workstation up to 6,600 ft with single-link	
HDMI		
Wireless		
EXT-WHD-1080P-SR	Wireless Extender for HDMI 5 GHz SR (Short Range) Extender System	CI
	Sends high definition audio and video to any HDTV screen up to 30 feet (10 meters)	
EXT-WHD-1080P-SR-TX	Wireless Extender for HDMI 5 GHz SR (Short Range) - Sender Package (US & Canada)	CI
	Sends high definition audio and video to any HDTV screen up to 30 feet (10 meters) (Sender Only)	
EXT-WHD-1080P-LR	Wireless Extender for HDMI 5 GHz LR (Long Range) Extender System	CI
EVT WIID 1000D ID TV	Sends high definition audio and video to any HDTV display up to 100 feet (30 meters)	61
EXT-WHD-1080P-LR-TX	Wireless Extender for HDMI 5 GHz LR (Long Range) - Sender Package (US & Canada) Sends high definition audio and video to any HDTV display up to 100 feet (30 meters) (Sender Only)	CI
EXT-WHD-1080P-SR-EU	Wireless Extender for HDMI 5 GHz SR (Short Range) Extender System (EU)	CI
EXI-WIID-10001-3K-E0	Sends high definition audio and video to any HDTV screen up to 30 feet (10 meters)	Ci
EXT-WHD-1080P-SR-TX-EU	Wireless Extender for HDMI 5 GHz SR (Short Range) - Sender Package (EU)	CI
EXT WILD TOOK OK IX ES	Sends high definition audio and video to any HDTV screen up to 30 feet (10 meters) (Sender Only)	
EXT-WHD-1080P-LR-EU	Wireless Extender for HDMI 5 GHz LR (Long Range) Extender System (EU)	CI
	Sends high definition audio and video to any HDTV display up to 100 feet (30 meters)	
EXT-WHD-1080P-LR-TX-EU	Wireless Extender for HDMI 5 GHz LR (Long Range) - Sender Package (EU)	CI
	Sends high definition audio and video to any HDTV display up to 100 feet (30 meters) (Sender Only)	
HDMI over CAT-5		
EXT-UHD-CAT5-ELRPOL	4K Ultra HD ELR-POL Extender w/ RS-232, Ethernet, and 2-way IR Extends HDMI, RS-232, Ethernet, and Bi-Directional IR over a single CAT-5 up to 495 feet (150 meters)	
EXT-HDKVM-ELR	HDKVM ELR Extender for HDMI and USB over One CATS	
-XX.	Extends HDMI, KVM, and USB up to 330 feet over CAT-5	
	, , ,	
HDMI over Fiber Optic		
HDMI over Fiber Optic EXT-HD-CP-FM10	Fiber Optic for HDMI (Pigtail Modules)	CI
EXT-HD-CP-FM10	Fiber Optic for HDMI (Piatail Modules) Extends HDMI up to 3300 feet using a single-strand 50/125µm multimode (OM2) SC-terminated fiber optic cable	
	Extends HDMI up to 3300 feet using a single-strand 50/125µm multimode (OM2) SC-terminated fiber optic cable 4K Ultra HD Extender over One Fiber w/ RS-232 and 2-way IR	CI
EXT-HD-CP-FM10	Extends HDMI up to 3300 feet using a single-strand 50/125µm multimode (OM2) SC-terminated fiber optic cable	





USB and Audio Extenders		
EXT-USB-400FON	USB 400 FO - Optical 4 Port USB 2.0 Hub	
	Extends USB devices up 1640 feet (500 meters) away from the USB source	
EXT-USB2.0-LR	USB 2.0 Extender	CI
	Extends USB 2.0 peripherals up to 330-feet over CAT-5 cable	
EXT-DIGAUD-141	Digital Audio Extender	CI
	Extends your Digital S/PDIF and TOSLINK audio up to 330 ft	
DisplayPort over Fiber Optic a		
EXT-DP-2CAT7	DisplayPort Extender over CAT-7	
	Extends DisplayPort device over 100 feet using CAT-7cables	
EXT-DP-CP-2FO	DisplayPort Extender over Fiber Optic	
	Extends DislplayPort up to 1000 feet over two strands of fiber	
EXT-DP-CP-FM10	DisplayPort Fiber Optic (Pigtail Modules)	
	Extends a DisplayPort up to 1000 feet using a single-strand multimode fiber optic cable with resolutions up to 2560 x 1600	
DVI, HDMI, and VGA over IP		
EXT-DVIKVM-LANRX	DVI KVM over IP - Receiver Package	
	Includes DVI KVM over IP - Receiver Package	
EXT-DVIKVM-LAN-LRX	DVI KVM over IP w/ Local DVI Output - Receiver Unit Package	
	DVI KVM over IP w/ Local DVI Output - Receiver Unit Package	
EXT-HD2IRS-LAN-RX	HDMI over IP with RS-232 and Bi-Directional IR - Receiver Package	
	HDMI over IP with RS-232 and Bi-Directional IR - Receiver Package	
EXT-HDKVM-LANRX	HD KVM over IP - Receiver Package	
	Includes HD KVM over IP - Receiver Package	
EXT-DVIKVM-LANTX	DVI KVM over IP - Sender Package	
	Includes DVI KVM over IP - Sender Package	
EXT-DVIKVM-LAN-LTX	DVI KVM over IP w/ Local DVI Output - Sender Unit Package	
	DVI KVM over IP w/ Local DVI Output - Sender Unit Package	
EXT-HD2IRS-LAN-TX	HDMI over IP with RS-232 and Bi-Directional IR - Sender Package	
	HDMI over IP with RS-232 and Bi-Directional IR - Sender Package	
EXT-HDKVM-LANTX	HD KVM over IP - Sender Package	
	Includes HD KVM over IP - Sender Package	
EXT-VGAKVM-LANRX	VGA KVM over IP - Receiver Package	
	Includes EXT-VGAKVM-LAN Receiver Unit	
EXT-VGAKVM-LANTX	VGA KVM over IP - Sender Package	
	Includes EXT-VGAKVM-LAN Sender Unit	
EXT-CU-LAN	Matrix Controller	
	Manage and control Video and KVM over IP products in a virtual matrix environment	





C1

C1 GGEFEN.

INTERPORT INTE	Video Wall Controllers, Mult	tiview Switchers, Seamless Switchers, and Seamless Matrixes	
INTERFORMANCE AND A Secretary Markins for FIDMI ACCOUNTS AND AND A SECRETARY A	EXT-HD-VWC-144	HD Video Wall Controller	CI
Accepts four EPEP sources and toules in Fermi or or of old four IEPY staplacy. Active Seaments without and unstable term individually or an windows on a single HDTV displacy. A User 10 Set Media for HDM with DEF 22 control and the control of th	EXT-HD-SL-444		
Accepts four III Del fources and analysis free individually or as window or a single IDTV displayy 4. Use 18 64 Market Review Windows WIDCP 22 EXEXPERAY 4.1 4.1 DEV TVM Markets Minister Instance on computers to one displayed on spirit 64 displays 1.2 DEV TVM Markets Minister Instance of computers to one displayed with MIDCP (price used in EDD) assistmation in the computer of		Accepts four Hi-Def sources and routes them to any or all of four HDTV displays	
ACT DVIK VV.4 1 ACT DV	EXT-HD-MVSL-441		CI
National Display Post Switches and Switches	EXT-UHD-88		CI
Interface four computer to one dual acream workstation Single-land DVI A DVI MARCH Control of the DVI Acres of the DVI Acre	EVE DVIV MAY 41		
intege Link DVI XEX.DVILLATE Combined State (Company) As DV Description And Company As DV	EXI-DVIK-MV-41		
EXT. DVI-1416 Bas D W Mokix Combine agin EVID compliant devices with HCCP (when used in £010 pass-through mode) and eight DVI displays		ers and Matrixes	
Combine sight DVI-Compliant devices with RDCP (when used in EDID pass-through mode) and eight DVI displays 1414 DVI Cosspoint Motifs Compliant RDVI Compliant RDVI Combine identified and an analysis of the RDVI displays 241 DVI DVI Combine identified CVI, 182 20 Audio between DVI displays 242 DVI VIVAI LAND COSSPOINT CVIVAI SEARCH SANCH SEARCH SEAR		0.0 DV/ Markin	
Combine sites on cross-plotform computers and sisteen DVI displays 44 DV 10 bott Disk Medits is a dissecution to any four DVI Dual tink displays XXT-DVIX-44DL 44 DV 10 bott Disk Medits is a dissecution to any four DVI Dual tink displays XXT-DVIX-44DL 45 DV 10 KW DIS Medits is a dissecution to any four DVI Dual tink displays XXT-DVIX-44DL 46 DV 10 KW DIS Will be suited be suited by a display of the display of the displays of the display of the displays of the same time without losing quality or resolution of the displays of the same time without losing quality o	EXI-DVI-646		
Secretary Device Secretary D	EXT-DVI-16416		
XXT-DVI-4440	Dugl-link DVI	Combine sixteen cross-platform computers and sixteen DVI displays	
EXT-DVIKVM-441DL Switches qualishin VDL 183 20 & Audio between two Computes (PC or Mac) SXT-DVIKVM-441DL Switches qualishin VDL 183 20 & Audio between two Computes (PC or Mac) SXT-DVIKVM-441DL Switches qualishin VDL 184 20 & Audio between on y 4 computes with support for dual-link or single-link DVI, US\$ 2.0 and audio signals SWIT-DVIKVM-444DL Switch between any eight computes (Mac or PC) using one Dual Link DVI Deplay SWIT-DVIKVM-444DL Switch between any eight computes (Mac or PC) using one Dual Link DVI Deplay SWIT-DVIKVM-444DL Switch between two spirits of the Switches of the	EXT-DVI-444DL	4x4 DVI Dual Link Matrix	
Switched sold-link DVI, USB 2.0 & Audio between two Computers IPC or Mac ALD VIK WIN DS Witches Switched a wardstoften between any 4 computers with support for dud-link or single-link DVI, USB 2.0 and audio signals SWI-DVIKVM-841DL SXT-DVIKVM-841DL SXT-DVIKVM-841DL SXT-DVIKVM-8440L 40 VIK WIN DWI LINK Malik AND VIK WIN DWI LINK WIN WIN LINK WIN LIN			
SXT-DVIKVM-441DL Set IDVIKVM DI Switcher	EXT-DVIKVM-241DL		
Skt DV KKN DE Switch between my object computers (Mac or PC) using one Dual Link DVI Displays Skt DV KWN A44DL	EXT-DVIKVM-441DL	4x1 DVI KVM DL Switcher	
Switch between any eight computers (Mac or PCL) using one Dual Link DVI Display Act D PKW DVI AND LINK Markits Switches four sources w/LSS and audio to 4 dual link DVI displays ACT DPKW-A41 ACT DPKW-A41 ACT DPKW-A41 AS DisplayPK NV Switcher CVM Switches Between Two EightpyPert Sources Using One Display Allows a DisplayPk NV Switcher CVM Switches Between Two EightpyPert Sources Using One Display Allows a DisplayPk NV Switcher CVM Switches Between Two EightpyPert Sources Using One Display Between Allows a DisplayPk of equipped source to be connected to four DisplayPkn displays Between Allows a DisplayPkn of equipped source to be connected to four DisplayPkn displays Between Allows a DisplayPkn of equipped source to be connected to four DisplayPkn displays Between Allows a DisplayPkn of equipped source to be connected to four DisplayPkn displays Between Allows a DisplayPkn of equipped source to be connected to four DisplayPkn displays Between Allows a DisplayPkn of equipped source to be connected to four DisplayPkn displays Between Allows a DisplayPkn of equipped source to be connected to four DisplayPkn displays Between Allows a DisplayPkn of equipped source to be connected to four DisplayPkn displays Between Allows a DisplayPkn of equipped source to be connected to four DisplayPkn displays Between Allows a DisplayPkn of equipped source and to connected to four Display Pkn of equipped source signal pkn of equipped source signal Pkn of equipped source and source and times Between Allows and the B	EVT DVIKVAA 941DI		
SKT-DIVEN-MAMDL 44 AND IX KVM Date I Link Morbits Switches for sources w/ LSB and audio to 4 dual link DVI displays And DisplayPort IX VM Switchers CXT-DPKVM-201 AND Switches Incorrect IX VM Switchers CXT-DPKVM-201 AND Switches IX Spitter for DisplayPort Sources Using One Display All DisplayPort IX VM Switchers CXT-DPK-M-201 Allows a DisplayPort equipped source to be connected to four DisplayPort displays EXT-DPK-DIDN By Detective And Boosters DIVE Detective Plus Use EDID to ensure that a connected Hi-Det source sends composible audio and video signals EXT-DV-EDIDN DIV Detective No. DIV Detective No. Records the EDID brown a display and makes it available to a source at all times Records the EDID brown a display and makes it available to a source at all times Records the EDID brown a display and makes it available to a source at all times Records the EDID brown a display and makes it available to a source at all times Records the EDID brown a display and makes it available to a source at all times Records the EDID brown a display and makes it available to a source at all times Records the EDID brown a display and makes it available to a source at all times Records the EDID brown a display and makes it available to a source at all times Records the EDID brown a display and makes it available to a source at all times Records the EDID brown a display and makes it available to a source at all times REXT-DVI-1410.BP DIV Display Brown EDID betective TWI Signay REXT-DVI-1410.BP DIV Display Brown EDID Betective TWI Signay REXT-DVI-1410.BP DIV Display Brown EDID Betective TWI Signay REXT-DVI-1410.BP 12 Dual Link DVI Distlay Brown Amplifier Solid Resource TWI DIV DIV DISTLAY Brown EDID Br	EXI-DVIKVM-841DL		
State Part	EXT-DVIKVM-444DL	4x4 DVI KVM Dual Link Matrix	
EXT-DPV-144 2x1 bipolyvent KVM switching Between two Displayfort Sources Using One Display XXT-DP-144 1x1 Spilliter for DisplayFort 1x1 Spilliter for DisplayFort 1x1 Spilliter for DisplayFort 1x2 Spilliter for DisplayFort 2x1 HD-120IDN 1x2 HD-120IDN 1x2 HD-120IDN 1x2 HD-120IDN 1x3 Spilliter for DisplayFort Source to be connected to four DisplayFort displays 2x1 HD-120IDN 1x2 HD-120IDN 1x3 Spilliter For DisplayFort 1x4 HD-120IDN 1x5 HD-1	DisplayBork	Switches four sources w/ USB and audio to 4 dual link DVI displays	
1.4 Spittler for DisplayPort Allows a DisplayPort Allows a DisplayPort Allows and BioplaySociety Allows a DisplayPort-equipped source to be connected to four DisplayPort displays	EXT-DPKVM-241	2x1 DisplayPort KVM Switcher	
Allows a DisplayFort-equipped source to be connected to four DisplayFort displays			
Detectives and Booslers DID Detectives DID Detectives DID Detectives DID Detective Six -HD-EDIDPN DETECTION Use EDID to ensure that a connected Hi-Def source sends compatible audio and video signals EXT-DVI-EDIDPN DIV Detective Plus Stores DVI EDID Information w/Locking EDID and Program Button DVI Detective Plus Records the EDID from a display and makes if a valiable to a source at all times Societies Scotters DVI-EDIDP DVI Detective Plus Records the EDID from a display and makes if a valiable to a source at all times Societies EXT-DVI-141DLBP DVI Detective Plus Start HDB0OST-141 Societies Plus File DVI Start Busines EXT-DVI-141DLBP DVI Detective Plus File Plus Fil	EXT-DP-144		
EXT.HD.PIDPN HDMD Detective Plus Use FDID to ensure that a connected Hi-Def source sends compatible audio and video signois	Detectives and Boosters	Fillows a bisplays on equipped society to be connected to tool bisplays on displays	
Use EDID to ensure that a connected Hi-Def source sends compatible audio and video signals XT-DVI-EDIDN DVI Defective N Stores DVI EDID information w/Locking EDID and Program Button DVI Defective Pius Records the EDID from a display and makes it available to a source of all times EXT-DVI-EDIDP DVI Defective Pius Records the EDID from a display and makes it available to a source of all times EXT-DVI-141	EDID Detectives		
SXT-DVI-16IDIN OVI Detective N Stores DVI EDID information w/Locking EDID and Program Button	EXT-HD-EDIDPN		CI
EXTDPL-IEBIDP DVI Detective Flus Records the EDID from a display and makes it available to a source at all times	EXT-DVI-EDIDN		
Records the EDID form a display and makes it available to a source at all times EXT-HDBOOST-141 Booster for HDM with EDID Detective Extends HDMI up to 115 feet at at K. Ultra HD resolutions Extends HDMI up to 115 feet at at K. Ultra HD resolutions EXT-HDVI-141DLBP DVI DL Booster PLUS (Dval Link) Extends a dud-link DVI Source with HDCP up to 200 feet away at resolutions reaching 2540 x 1400 EXT-HDMI.3-141SBP Super Booster PLUS for HDMI.1.3 Extends HDMI Up to 100 feet away at resolutions reaching 2540 x 1400 EXT-HDMI.3-141SBP Splitters Converters, and Scalers EXT-HDVI-142DN Splitters Converters, and Scalers EXT-HDVI-144DN Split vertex on significant in the CVI source to the DVI dual link outputs EXT-HDVI-144DN Splitters EXT-HDVI-144DN Splitters EXT-HDVI-144DN Splitters EXT-HDVI-144DN Splitter on the DVI source to four DVI displays EXT-HDVI-144DN Splitters EXT-HDVI-144DN Splitter on the DVI source to four DVI displays EXT-HDVI-144DN Splitters EXT-HDVI-144DN Splitter for HDMI 1.3 with Digital Audo Sends at H-Def AVV source with HDCP to up to eight DVI displays EXT-HDMI.3-144D Splitter for HDMI 1.3 with Digital Audo Sends at H-Def AVV source with HDCP to up to 2 HDTV displays at the same time without losing quality or resolution EXT-HDMI.3-145 Audio/Video Multi-Format Processor Converters and Scalers EXT-MDVG-3-G-SC WG A 6 Audio to HD Scaler / Converter Scales and converts video from an HDMI or a VGA source to SDI formots EXT-HDVG-3-G-SC WG A 6 Audio to HD Scaler / Converter Converts video from an HDMI to a VGA source to DVI output EXT-HD-1-2-VGAN DVI to HV-10-N Scaler / Converter Converts video from ADMI to AGA Source to DVI output EXT-HD-1-2-VGAN DVI to HV-10-N Scaler / Converter Converts video from SDI to HDMI SCALER - Converter Converts video from SDI			
Booster for HDMI with EDID Detective Extends HDMI up to 115 feet at 4K Ultra HD resolutions CI	EXT-DVI-EDIDP		
EXT-DVI-141DLBP EXT-DVI-141DLBP DVI DI Sootser PLUS (Druct Link) Extends a doubl-link DVI source with HDCP up to 200 feet away at resolutions reaching 2560 x 1600 EXT-HDMI1,3-141SBP Super Booster PLUS for HDMI 1.3 Extends HDMI 1.3 up to 100 ff. and HDMI 1.2 up to 200 ff Splitters EXT-DVI-142DLN 1:2 Dual Link DVI Distribution Amplifier Splits video using a dual link DVI source to two DVI dual link outputs EXT-DVI-144DL 1:4 DVI Dual Link Splitter Distributes a dual-link DVI source to four dual-link DVI outputs, without losing quality or resolution EXT-DVI-144N 1:4 DVI Splitter Connect one DVI source with HDCP to up to eight DVI displays EXT-DVI-148 1:8 DVI Distribution Amplifier Connect one DVI source with HDCP to up to eight DVI displays EXT-DVI-148 1:8 DVI Distribution Amplifier Connect one DVI source with HDCP to up to eight DVI displays EXT-DVII-3-142D 1:2 Splitter for HDMI 1.3 with Digital Audio Sends a Hi-Def A/V source with HDCP to up to 2 HDTV displays at the same time without losing quality or resolution EXT-HDMI1,3-144 1:4 Splitter for HDMI 1.3 Indian an HDMI source with HDCP to up to 2 HDTV displays EXT-MPM A-3G-SC Used and source with HDCP to up to 2 HDTV displays EXT-MPF Audio/Viceo Multi-Format Processor Compact and powerful presentation switcher with cutting edge format conversion and scaling abilities EXT-MPA B-3G-SC VGA 8, Audio to HD Scaler / Converter Scales and converts video from a VGA source to digital video from an HDMI output EXT-VGA-DVI-3C VGA 10 DVI Scaler / Converter Converts audio and video from AVGA source to a DVI output EXT-DVI-2-VGAN DVI to HDMI Converter Converts oudio and video from SDI to HDMI Converter Converts oudio and video from SDI to HDMI DVI to HDMI Converter Converts Outlo and video from SDI to HDMI DVI to HDMI Converter Converts Outlo and video from SDI to HDMI DVI to HDMI Converter Converts Outlo and video from SDI to HDMI DVI to HDMI Converter Converts Outlo and video from SDI to HDMI DVI to HDMI Converter Converts Outlo and video from SDI to HDMI DVI to HDM	Boosters	Notice at the EBB from a display and makes it a fall about a fall a fall a fall about a fall a f	
EXT-DVI-141DLBP DVI DL Booster PLUS for LOUIL LINK) Extends a dual-link DVI source with HDCP up to 200 feet away at resolutions reaching 2540 x 1400 EXT-HDMI1.3-141SBP Super Booster PLUS for HDMI 1.3 Extends HDMI 1.3 up to 100 ft. and HDMI 1.2 up to 200 ft Splitters EXT-DVI-142DLN 1:2 Dual Link DVI Distribution Amplifier Splits video using a dual link DVI source to two DVI dual link outputs EXT-DVI-144DL 1:4 DVI Dual Link Splitter Distributes a dual-link DVI source to four dual-link DVI outputs, without losing quality or resolution EXT-DVI-144N 1:4 DVI Splitter Connect one DVI source to four DVI displays EXT-DVI-148 1:8 DVI Distribution Amplifier Connect one DVI source with HDCP to up to eight DVI displays EXT-DVI-148 1:2 Splitter for HDMI 1.3 with Digital Audio Sends a HE-DEI AVY source with HDCP to up to 2 HDTV displays at the same time without losing quality or resolution EXT-DMI1.3-144 1:3 Splitter for HDMI 1.3 with Digital Audio Sends a HE-DEI AVY source with HDCP to up to 2 HDTV displays at the same time without losing quality or resolution EXT-MDMI1.3-144 1:4 Splitter for HDMI 1.3 Audio/Video Multi-Format Processor Compact and powerful presentation switcher with cutting edge format conversion and scaling abilities EXT-MPF Audio/Video Multi-Format Processor Compact and powerful presentation switcher with cutting edge format conversion and scaling abilities EXT-MPF Audio/Video Multi-Format Processor Converter and Scaler / Converter Scales and converts video from an HDMI or a VGA source to SDI formats EXT-WGA-HD-SC VGA & Audio I ND Scaler / Converter Converts audio and video from SDI to HDMI Converter Sudio and video from SDI to HDMI DVI to VGA Converter Converts audio and video from SDI to HDMI DVI to VGA Converter Converts Ovid-D to VGA Converts SDVI-D to VGA DVI to HD-SDI Single Link Scaler Box VI 10 ND 10 ND SDI Single Link Scaler Box VI 10 ND 10 N	EXT-HDBOOST-141		CI
Extends a dual-link DVI source with HDCP up to 200 feet away at resolutions reaching 2560 x 1600 Super Boater PLUS for HDMI 1.3 Extends HDMI 1.3 up to 100 ft. and HDMI 1.2 up to 200 ft Splitters DVI Splitters EXT-DVI-142DLN 1:2 Dual Link DVI bistibution Amplifier Splits video using a dual link DVI source to two DVI dual link outputs EXT-DVI-144DL 1:4 DVI Dual Link Splitter Distributes a dual-link DVI source to four dual-link DVI outputs, without losing quality or resolution EXT-DVI-144N 1:4 DVI Splitter Connect one DVI source to four DVI displays EXT-DVI-148 12 Splitter for HDMI 1.3 with Digital Audio Sends a Hi-Def A/V source with HDCP to up to eight DVI displays EXT-HDMII.3-142D 12 Splitter for HDMI 1.3 with Digital Audio Sends a Hi-Def A/V source with HDCP to up to 2 HDTV displays at the same time without losing quality or resolution EXT-HDMII.3-144 13 Splitter for HDMI 1.3 with Digital Audio Sends a Hi-Def A/V source with HDCP to up to 2 HDTV displays at the same time without losing quality or resolution EXT-HDMII.3-144 13 Splitter for HDMI 1.3 with Digital Audio Sends a Hi-Def A/V source with HDCP to be connected to four HDTV displays Converters and Scalers EXT-HDVGA-3G-SC EXT-HDVGA-3G-SC HD & VGA is Audio to HD Scaler / Converter Scales and converts video from an HDMI or a VGA source to SDI formats EXT-VGAA-HD-SC VGA & Audio to HD Scaler / Converter Scales and converts video from an HDMI or a VGA source to a DVI output EXT-HD-3G-C HDMI to 3GSDI Converter Converts audio and video from SDI to HDMI EXT-RDVI-2-VGAN DVI to VGA Converter Converts audio and video from SDI to HDMI EXT-RDVI-2-VGAN DVI to VGA Converter Converts audio and video from SDI to HDMI DVI to VGA Converter Converts audio and video from SDI to HDMI DVI to VGA Converter Converts audio and video from SDI to HDMI DVI to VGA Converter Converts DVI-D to VGA DVI to VGA Converter Converts D	EXT-DVI-141DLBP		
Extends HDMI 1.3 up to 100 ft. and HDMI 1.2 up to 200 ft Splitters		Extends a dual-link DVI source with HDCP up to 200 feet away at resolutions reaching 2560 x 1600	
Splitters Splitters Splits viceo using a dual link DVI Distribution Amplifier Splits viceo using a dual link DVI source to two DVI dual link outputs	EXT-HDMI1.3-141SBP		
DVI Spillers EXT-DVI-142DLN 1.2 Dual Link DVI Distribution Amplifier Spilis video using a dual link DVI source to two DVI dual link outputs EXT-DVI-144DL 1.4 DVI Dual Link Spiller Distributes a dual-link DVI source to four dual-link DVI outputs, without losing quality or resolution EXT-DVI-144N 1.4 DVI Spiller Connect one DVI source to four DVI displays EXT-DVI-148 1.8 DVI Distribution Amplifier Connect one DVI source with HDCP to up to eight DVI displays EXT-HDMI1.3-142D 1.2 Spillter for HDMI 1.3 with Digital Audio Sends a Hi-Def A/V source with HDCP to up to 2 HDTV displays at the same time without losing quality or resolution EXT-HDMI1.3-144 1.4 Spillter for HDMI 1.3 Allow an HDMI source with HDCP to be connected to four HDTV displays EXT-HDMI1.3-144 1.4 Spillter for HDMI 1.3 Allow and HDMI source with HDCP to be connected to four HDTV displays EXT-MFP Audio/Video Multi-Format Processor Compact and powerful presentations switcher with cutting edge format conversion and scaling abilities EXT-HDVGA-3G-SC HD & VGA to 3GSDI Scaler / Converter Scales and converts video from a HDMI or a VGA source to SDI formats EXT-VGAA-HD-SC VGA & Audio to HD Scaler / Converter Scales and converts video from a VGA source to a DVI output EXT-UGA-DVI-SC EXT-UGA-DVI-SC 4 DMI to 3GSDI Converter Scales and converts video from BDMI to 3G-SDI and single link HD-SDI EXT-DVI-2-VGAN DVI to VGA Converter Converts audio and video from HDMI to 3G-SDI and single link HD-SDI EXT-DVI-2-VGAN DVI to VGA Converter Converts audio and video from BDMI to HDMI DVI to VGA Converter Converts audio and video from BDMI to HDMI DVI to VGA Converter Converts audio and video from BDMI to HDMI DVI to VGA Converter Converts audio and video from BDMI to HDMI DVI to VGA Converter Converts Sudio and video from BDMI to HDMI DVI to VGA Converter Converts audio and video from BDMI to HDMI	Splitters, Converters, and Sc		
Splits video using a dual link DVI source to two DVI dual link outputs EXT-DVI-144DL 1.4 DVI Dual Link Splitter Distributes a dual-link DVI source to four dual-link DVI outputs, without losing quality or resolution EXT-DVI-144N 1.4 DVI Splitter Connect one DVI source to four DVI displays EXT-DVI-148 1x8 DVI Distribution Amplifier Connect one DVI source with HDCP to up to eight DVI displays EXT-HDMI1.3-142D 1.2 Splitter for HDMI 1.3 with Digital Audio Sends a HI-Def A/V source with HDCP to up to 2 HDTV displays at the same time without losing quality or resolution EXT-HDMI1.3-144 1.4 Splitter for HDMI 1.3 Allow an HDMI source with HDCP to be connected to four HDTV displays EXT-MFP Audio/Video Multi-Format Processor Compact and powerful presentation switcher with cutting edge format conversion and scaling abilities EXT-HDVGA-3G-SC HD & VGA to 3GSDI Scaler / Converter Scales and converts video from an HDMI or a VGA source to SDI formats EXT-VGAA-HD-SC VGA & Audio to HD Scaler / Converter Scales and converts video from a VGA source to digital video from an HDMI output EXT-VGA-DVI-SC EXT-VGA-DVI-SC Scales and converts video from a VGA source to a DVI output EXT-HD-3G-C HDMI to 3GSDI Converter Scales and converts video from a VGA source to a DVI output EXT-BD-3G-C SCALES and converts video from a VGA source to a DVI output EXT-BD-3G-C SCALES and converts video from a VGA source to a DVI output EXT-BD-3G-C SCALES and converts video from BDMI to 3G-SDI and single link HD-SDI SCXT-3G-HD-C SCALES and converts video from SDI to HDMI DVI to VGA Converter Converts audio and video from SDI to HDMI DVI to VGA Converter Converts DVI-D to VGA DVI SCALES Stales Stales SCALES and SCALES and SCALES SCA	DVI Splitters		
EXT-DVI-144DL 1:4 DVI Dual Link Splitter Distributes a dual-link DVI source to four dual-link DVI outputs, without losing quality or resolution 1:4 DVI Splitter Connect one DVI source to four DVI displays EXT-DVI-148 1x8 DVI Distribution Ampliffer Connect one DVI source with HDCP to up to eight DVI displays 1DMI Splitters Connect one DVI source with HDCP to up to 2 HDTV displays 1:2 Splitter for HDMI 1.3 with Digital Audio Sends a Hi-Def A/V source with HDCP to up to 2 HDTV displays at the same time without losing quality or resolution EXT-HDMI1.3-144 1:4 Splitter for HDMI 1.3 Allow an HDMI source with HDCP to be connected to four HDTV displays Converters and Scalers EXT-MFP Audio/Video Multi-format Processor Compact and powerful presentation switcher with cutting edge format conversion and scaling abilities EXT-HDVGA-3G-SC HD B x VGA to 3GSDI Scaler / Converter Scales and converts video from an HDMI or a VGA source to SDI formats EXT-VGAA-HD-SC VGA & Audio to HD Scaler / Converter Scales and converts video from a VGA source to digital video from an HDMI output EXT-HD-3G-C HDMI to 3GSDI Converter Converts audio and video from VGA source to a DVI output EXT-HD-3G-C SaSDI to HDMI Converter Converts audio and video from SDI to HDMI DVI to VGA Converter Converts audio and video from SDI to HDMI DVI to VGA Converter Converts DVI-D to VGA DVI to HD-SDI Single Link Scaler Box	EXT-DVI-142DLN		
EXT-DVI-144N 1:4 DVI Splitter Connect one DVI source to four DVI displays EXT-DVI-148 1:2 Splitter Connect one DVI source with HDCP to up to eight DVI displays EXT-HDMI1.3-142D 1:2 Splitter for HDMI 1.3 with Digital Audio Sends a Hi-Def A/V source with HDCP to up to 2 HDTV displays at the same time without losing quality or resolution EXT-HDMI1.3-144 1:4 Splitter for HDMI 1.3 Allow an HDMI source with HDCP to be connected to four HDTV displays Converters and Scalers EXT-HDVGA-3G-SC EXT-HDVGA-3G-SC Audio/Video Multi-Format Processor Compact and powerful presentation switcher with cutting edge format conversion and scaling abilities EXT-WGAA-HD-SC VGA 8 Audio to HD Scaler / Converter Scales and converts video from an HDMI or a VGA source to SDI formats EXT-VGA-DVI-SC VGA to DVI Scaler / Converter Scales and converts video from a VGA source to digital video from an HDMI output EXT-WGA-DVI-SC WGA to DVI Scaler / Converter Scales and converts video from a VGA source to a DVI output EXT-WGA-DVI-SC EXT-HDM to 3GSDI Converter Converts audio and video from HDMI to 3G-SDI and single link HD-SDI EXT-GONVERTS audio and video from SDI to HDMI DVI to VGA Converter Converts DVI-D to VGA DVI to HD-SDI Single Link Scaler Box	EXT-DVI-144DL	11. 1 11. 11. 0 1 11. 1 1 1 1 1 1 1 1 1	
Connect one DVI source to four DVI displays 1x8 DVI Distribution Amplitier Connect one DVI source with HDCP to up to eight DVI displays EXT-DVI-148 1x8 DVI Distribution Amplitier EXT-HDMI1.3-142D 1x2 Splitter for HDMI 1.3 with Digital Audio Sends a Hi-Det A/V source with HDCP to up to 2 HDTV displays at the same time without losing quality or resolution EXT-HDMI1.3-144 1x3 Splitter for HDMI 1.3 Allow an HDMI source with HDCP to be connected to four HDTV displays Converters and Scalers EXT-MFP Audio/Video Multi-Format Processor Compact and powerful presentation switcher with cutting edge format conversion and scaling abilities HD & VGA to 3GSDI Scaler / Converter Scales and converts video from an HDMI or a VGA source to SDI formats EXT-VGAA-HD-SC VGA & Audio to HD Scaler / Converter Scales and converts video from a VGA source to digital video from an HDMI output EXT-VGA-DVI-SC VGA to DVI Scaler / Converter Scales and converts video from a VGA source to a DVI output HDMI to 3GSDI Converter Converts audio and video from HDMI to 3G-SDI and single link HD-SDI EXT-3G-HD-C 3GSDI to HDMI Converter Converts audio and video from SDI to HDMI EXT-DVI-2-VGAN DVI to VGA Converter Converts DVI-D to VGA DVI 15 HD-SDI Single Link Scaler Box	EVE BY (1.4.44)		
Table Tabl	EXI-DVI-144N		
HDMI Splitters EXT-HDMI1.3-142D 1:2 Splitter for HDMI 1.3 with Digital Audio Sends a Hi-Def A/V source with HDCP to up to 2 HDTV displays at the same time without losing quality or resolution 1:4 Splitter for HDMI 1.3 Allow an HDMI source with HDCP to be connected to four HDTV displays Converters and Scalers EXT-MFP Audio/Video Multi-Format Processor Compact and powerful presentation switcher with cutting edge format conversion and scaling abilities EXT-HDVGA-3G-SC HD & VGA to 3GSDI Scaler / Converter Scales and converts video from an HDMI or a VGA source to SDI formats EXT-VGAA-HD-SC VGA & Audio to HD Scaler / Converter Scales and converts video from a VGA source to digital video from an HDMI output EXT-VGA-DVI-SC VGA to DVI Scaler / Converter Scales and converts video from a VGA source to a DVI output EXT-HD-3G-C HDMI to 3GSDI Converter Converts audio and video from HDMI to 3G-SDI and single link HD-SDI EXT-3G-HD-C 3GSDI to HDMI Converter Converts audio and video from SDI to HDMI DVI to VGA Converter Converts DVI-D to VGA DVI to VGA Converter Converts DVI-D to VGA DVI to VGA Converter Converts DVI-D to VGA DVI to HD-SDI Single Link Scaler Box	EXT-DVI-148	1x8 DVI Distribution Amplifier	
1:2 Splitter for HDMI 1.3 with Digital Audio Sends a Hi-Def A/V source with HDCP to up to 2 HDTV displays at the same time without losing quality or resolution	HDMI Splitters	Connect one DVI source with HDCP to up to eight DVI displays	
Sends a Hi-Def A/V source with HDCP to up to 2 HDTV displays at the same time without losing quality or resolution 1.4 Splitter for HDMI 1.3 Allow an HDMI source with HDCP to be connected to four HDTV displays Converters and Scalers EXT-MFP Audio/Video Multi-Format Processor Compact and powerful presentation switcher with cutting edge format conversion and scaling abilities EXT-HDVGA-3G-SC HD & VGA to 3GSDI Scaler / Converter Scales and converts video from an HDMI or a VGA source to SDI formats EXT-VGAA-HD-SC VGA & Audio to HD Scaler / Converter Scales and converts video from a VGA source to digital video from an HDMI output EXT-VGA-DVI-SC VGA to DVI Scaler / Converter Scales and converts video from a VGA source to a DVI output EXT-HD-3G-C HDMI to 3GSDI Converter Converts audio and video from HDMI to 3G-SDI and single link HD-SDI EXT-3G-HD-C 3GSDI to HDMI Converter Converts audio and video from SDI to HDMI EXT-DVI-2-VGAN DVI to VGA Converter Converts DVI-D to VGA DVI to UGA Converter Converts DVI-D to VGA DVI to HD-SDI Single Link Scaler Box	EXT-HDMI1.3-142D	1:2 Splitter for HDMI 1.3 with Digital Audio	CI
Allow an HDMI source with HDCP to be connected to four HDTV displays EXT-MFP Audio/Video Multi-Format Processor Compact and powerful presentation switcher with cutting edge format conversion and scaling abilities EXT-HDVGA-3G-SC HD & VGA to 3GSDI Scaler / Converter Scales and converts video from an HDMI or a VGA source to SDI formats EXT-VGAA-HD-SC VGA & Audio to HD Scaler / Converter Scales and converts video from a VGA source to digital video from an HDMI output EXT-VGA-DVI-SC VGA to DVI Scaler / Converter Scales and converts video from a VGA source to a DVI output EXT-HD-3G-C HDMI to 3GSDI Converter Converts audio and video from HDMI to 3G-SDI and single link HD-SDI EXT-3G-HD-C 3GSDI to HDMI Converter Converts audio and video from SDI to HDMI EXT-DVI-2-VGAN DVI to VGA Converter Converts DVI-D to VGA DVI to HD-SDI Single Link Scaler Box		Sends a Hi-Def A/V source with HDCP to up to 2 HDTV displays at the same time without losing quality or resolution	
Converters and Scalers EXT-MFP Audio/Video Multi-Format Processor Compact and powerful presentation switcher with cutting edge format conversion and scaling abilities EXT-HDVGA-3G-SC HD & VGA to 3GSDI Scaler / Converter Scales and converts video from an HDMI or a VGA source to SDI formats EXT-VGA-HD-SC VGA & Audio to HD Scaler / Converter Scales and converts video from a VGA source to digital video from an HDMI output EXT-VGA-DVI-SC VGA to DVI Scaler / Converter Scales and converts video from a VGA source to a DVI output EXT-HD-3G-C HDMI to 3GSDI Converter Converts audio and video from HDMI to 3G-SDI and single link HD-SDI EXT-3G-HD-C 3GSDI to HDMI Converter Converts audio and video from SDI to HDMI EXT-DVI-2-VGAN DVI to VGA Converter Converts DVI-D to VGA DVI to HD-SDI Single Link Scaler Box	EXT-HDMI1.3-144		CI
Compact and powerful presentation switcher with cutting edge format conversion and scaling abilities HD & VGA to 3GSDI Scaler / Converter Scales and converts video from an HDMI or a VGA source to SDI formats EXT-VGAA-HD-SC VGA & Audio to HD Scaler / Converter Scales and converts video from a VGA source to digital video from an HDMI output EXT-VGA-DVI-SC VGA to DVI Scaler / Converter Scales and converts video from a VGA source to a DVI output EXT-HD-3G-C HDMI to 3GSDI Converter Converts audio and video from HDMI to 3G-SDI and single link HD-SDI EXT-3G-HD-C 3GSDI to HDMI Converter Converts audio and video from SDI to HDMI EXT-DVI-2-VGAN DVI to VGA Converter Converts DVI-D to VGA DVI to HD-SDI Single Link Scaler Box	Converters and Scalers	place and purity acceptance of the second conditions of the property and t	
EXT-HDVGA-3G-SC HD & VGA to 3GSDI Scaler / Converter Scales and converts video from an HDMI or a VGA source to SDI formats VGA & Audio to HD Scaler / Converter Scales and converts video from a VGA source to digital video from an HDMI output EXT-VGA-DVI-SC VGA to DVI Scaler / Converter Scales and converts video from a VGA source to a DVI output EXT-HD-3G-C HDMI to 3GSDI Converter Converts audio and video from HDMI to 3G-SDI and single link HD-SDI EXT-3G-HD-C 3GSDI to HDMI Converter Converts audio and video from SDI to HDMI EXT-DVI-2-VGAN DVI to VGA Converter Converts DVI-D to VGA DVI to HD-SDI Single Link Scaler Box	EXT-MFP		CI
Scales and converts video from an HDMI or a VGA source to SDI formats VGA & Audio to HD Scaler / Converter Scales and converts video from a VGA source to digital video from an HDMI output EXT-VGA-DVI-SC VGA to DVI Scaler / Converter Scales and converts video from a VGA source to a DVI output EXT-HD-3G-C HDMI to 3GSDI Converter Converts audio and video from HDMI to 3G-SDI and single link HD-SDI EXT-3G-HD-C 3GSDI to HDMI Converter Converts audio and video from SDI to HDMI EXT-DVI-2-VGAN DVI to VGA Converter Converts DVI-D to VGA DVI to HD-SDI Single Link Scaler Box	EXT-HDVGA-3G-SC		1
Scales and converts video from a VGA source to digital video from an HDMI output VGA to DVI Scaler / Converter Scales and converts video from a VGA source to a DVI output EXT-HD-3G-C HDMI to 3G\$DI Converter Converts audio and video from HDMI to 3G-\$DI and single link HD-\$DI EXT-3G-HD-C 3G\$DI to HDMI Converter Converts audio and video from \$DI to HDMI EXT-DVI-2-VGAN DVI to VGA Converter Converts DVI-D to VGA DVI to HD-\$DI Single Link \$caler Box		Scales and converts video from an HDMI or a VGA source to SDI formats	
EXT-VGA-DVI-SC VGA to DVI Scaler / Converter Scales and converts video from a VGA source to a DVI output HDMI to 3GSDI Converter Converts audio and video from HDMI to 3G-SDI and single link HD-SDI EXT-3G-HD-C 3GSDI to HDMI Converter Converts audio and video from SDI to HDMI EXT-DVI-2-VGAN DVI to VGA Converter Converts DVI-D to VGA DVI to HD-SDI Single Link Scaler Box	EXT-VGAA-HD-SC	· ·	CI
Scales and converts video from a VGA source to a DVI output HDMI to 3G\$DI Converter Converts audio and video from HDMI to 3G-\$DI and single link HD-\$DI EXT-3G-HD-C 3G\$DI to HDMI Converter Converts audio and video from \$DI to HDMI EXT-DVI-2-VGAN DVI to VGA Converter Converts DVI-D to VGA DVI to HD-\$DI Single Link Scaler Box	EXT-VGA-DVI-SC	· · · · · · · · · · · · · · · · · · ·	
Converts audio and video from HDMI to 3G-SDI and single link HD-SDI EXT-3G-HD-C 3GSDI to HDMI Converter Converts audio and video from SDI to HDMI EXT-DVI-2-VGAN DVI to VGA Converter Converts DVI-D to VGA DVI to HD-SDI Single Link Scaler Box		Scales and converts video from a VGA source to a DVI output	
EXT-3G-HD-C 3GSDI to HDMI Converter Converts audio and video from SDI to HDMI EXT-DVI-2-VGAN DVI to VGA Converter Converts DVI-D to VGA DVI to HD-SDI Single Link Scaler Box	EXT-HD-3G-C		
Converts audio and video from SDI to HDMI EXT-DVI-2-VGAN DVI to VGA Converter Converts DVI-D to VGA DVI to HD-SDI Single Link Scaler Box	EXT-3G-HD-C		
Converts DVI-D to VGA DVI to HD-SDI Single Link Scaler Box		Converts audio and video from SDI to HDMI	
EXTDVI-2-HDSDISSI DVI to HD-SDI Single Link Scaler Box	EXT-DVI-2-VGAN		
*X1=DV1=7=HDNDISSI	EVE DAILO LIBORIOS		
	EXI-DVI-2-HDSDISSL		

Multimode DVFD DV-D Tiber Optic Cable 48 ft (M-M) CI CL AD-WICH Selection DVFD DV-D Tiber Optic Cable 48 ft (M-M) CI CL AD-WICH Selection DVFD DV-D DV-D DV-D Cable Cable 48 ft (M-M) CI CL AD-WICH Selection DVFD DV-D DV-D DV-D DV-D DV-D DV-D DV-D	Cables		
CAL-DIVIC-04-MM			
CAR-HDV-150MM	CAB-DVIFO-60MM		CI
Int V Own D New Optic Coabe 30 MAM Int V Own D New Optic Coabe 1.6 MAM Int V Own D New Optic Coabe	HDTV Extreme DVI Fiber Optic Integr	aled Cables	
IDENTIFY ON DESIGNATION Designation Colors (Colors (III) MAM Designation Colors (III) MAM De	CAB-HDTV-50MM		CI
Display For Extreme Piles Coptic Cabiles AD-PX-150 Display For Extreme Extension Cabile 100 ft Cal- AD-PX-150 Display For Extreme Extension Cabile 100 ft Cal- Display For Extreme Piles Coptic 100 ft Cal- Display F	CAB-HDTV-150MM		CI
CAB-DPX-100 Display/Pot Esterne Seternion Coble 100 ft Cab-DPX-150 Display/Pot Esterne Seternion Coble 100 ft Cab-DPX-150 Display/Pot Esterne Seternion Coble 100 ft Cab-DPX-150 Display/Pot Esterne Seternion Coble 140 ft Cab-DPX-150 Cab-DPX-150 Display/Pot Esterne Seternion Coble 140 ft Cab-DPX-150	DisplayPort Extreme Fiber Optic Cab		
DisplayFort Externet Extension Coble 144ff DisplayFort Externet Coble 144ff DisplayFort Externet Extension Coble 204ff DisplayFort Coble 204ff DisplayFort Extension Coble 204ff DisplayFort Coble 204ff DisplayFort Extension Coble 204ff DisplayFort Coble 204f	CAB-DPX-100	DisplayPort Extreme Extension Cable 100 ft	CI
Doublink DVI Cobber Ad-DVIC-DIAM Obulink DVI Copper Cobbe 6 ft (M-M), Black DVI-D Copper Cobbe 6 ft (M-M), Black DVI-D Copper Cobbe 6 ft (M-M), Black DVI-D Copper Cobbe 6 ft (M-M) Duellink DVI Cobbe 6 ft (M-M) Duellink DVI Copper Cobbe 6 ft (M-M) Duellink DVI Copper Cobbe 6 ft (M-M) Duellink DVI Copper Cobbe 6 ft (M-M) Duellink DVI Cobbe	CAB-DPX-150	DisplayPort Extreme Extension Cable 164ft	CI
Dud Link DVI Copper Cable 6 H (M-M) DVI	Dual-Link DVI Cables	bisplays on Extramol Extension Gable 1971	
Doublink DVI Copter Cable 50 ff (M-M) Black, Retail Package Dual Link DVI Copter Cable 50 ff (M-M) Black, Retail Package Dual Link DVI Copter Cable 10 ff (M-M) CI Dual Link DVI Copter Cable 10 ff (M-M) CI High Speed HDM Cable with Etherse Lord Manage LOF CAB-HD-LCK-01MM High Speed HDM Cable with Etherse Lord Manage LOF CAB-HD-LCK-01MM High Speed HDM Cable with Etherse Lord Manage LOF CAB-HD-LCK-01MM High Speed HDM Cable with Etherse Lord Manage LOF CAB-HD-LCK-01MM High Speed HDM Cable with Etherse Lord Manage LOF CAB-HD-LCK-01MM High Speed HDM Cable with Etherse Lord Manage LOF CAB-HD-LCK-01MM High Speed HDM Cable with Etherse Lord Manage LOF CAB-HD-LCK-01MM High Speed HDM Cable with Etherse Lord Manage LOF CAB-HD-LCK-01MM High Speed HDM Cable with Etherse Lord Manage LOF CAB-HD-LCK-01MM High Speed HDM Cable with Etherse Lord Manage LOF (M-M) CAB-HD-LCK-15MM High Speed HDM Cable with Etherse Lord Manage LOF (M-M) CAB-HD-LCK-15MM High Speed HDM Cable with Etherse Lord Manage LOF (M-M) CAB-HD-LCK-15MM High Speed HDM Cable with Etherse Lord Manage LOF (M-M) CAB-HD-LCK-15MM High Speed HDM Cable with Etherse Lord Manage LOF (M-M) CAB-HD-LCK-15MM High Speed HDM Cable with Etherse Lord Manage LOF (M-M) CAB-HD-LCK-15MM High Speed HDM Cable with Etherse Lord Manage LOF (M-M) CAB-HD-LCK-15MM High Speed HDM Cable with Etherse Lord Manage LOF (M-M) CAB-HD-LCK-15MM High Speed HDM Cable with Etherse Lord Manage LOF (M-M) CI CAB-HD-LCK-15MM High Speed HDM Cable with Etherse Lord Manage Lor	CAB-DVIC-DLN-06MM		CI
Doubland ROW Discount Doubland ROW Cobber Cable 100 ft (M-M) Discount Discou	CAB-DVIC-DLBN-50MM	Dual Link DVI Copper Cable 50 ff (M-M), Black, Retail Package	CI
High-Speed HDMI Cobles with Ethernet and Mono-LOK 1 ft (M-M) CAB-HD-LCK-01MM High Speed HDMI Coble with Ethernet and Mono-LOK 1 ft (M-M) High Speed HDMI Coble with Ethernet and Mono-LOK 1 ft (M-M) High Speed HDMI Coble with Ethernet and Mono-LOK 1 ft (M-M) High Speed HDMI Coble with Ethernet and Mono-LOK 1 ft (M-M) High Speed HDMI Coble with Ethernet and Mono-LOK 1 ft (M-M) High Speed HDMI Coble with Ethernet and Mono-LOK 1 ft (M-M) High Speed HDMI Coble with Ethernet and Mono-LOK 1 ft (M-M) High Speed HDMI Coble with Ethernet and Mono-LOK 1 ft (M-M) High Speed HDMI Coble with Ethernet and Mono-LOK 1 ft (M-M) High Speed HDMI Coble with Ethernet and Mono-LOK 10 ft (M-M) High Speed HDMI Coble with Ethernet and Mono-LOK 15 ft (M-M) High Speed HDMI Coble with Ethernet and Mono-LOK 15 ft (M-M) High Speed HDMI Coble with Ethernet and Mono-LOK 15 ft (M-M) High Speed HDMI Coble with Ethernet and Mono-LOK 15 ft (M-M) High Speed HDMI Coble with Ethernet and Mono-LOK 15 ft (M-M) High Speed HDMI Coble with Ethernet and Mono-LOK 15 ft (M-M) High Speed HDMI Coble with Ethernet and Mono-LOK 15 ft (M-M) High Speed HDMI Coble with Ethernet and Mono-LOK 15 ft (M-M) High Speed HDMI Coble with Ethernet HDMI MONO-LOK 15 ft (M-M) High Speed HDMI Locking Coble 6 ft (M-M) DVI 10 HDMI Locking Coble 6 ft (M-M)	Dual-Link DVI DLX Cable		
CAB-HD-LCK-01MM High Speed HDMI Coble with Ethernet and Mono-LOK 11 (M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 31 (M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 31 (M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 31 (M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 31 (M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 31 (M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 31 (M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 61 (M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 61 (M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Etherne	CAB-DVIC-DLX-100MM		CI
CAB-HD-LCK-01MM High Speed HDMI Coble with Ethernet and Mono-LOK 11 (M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 31 (M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 31 (M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 31 (M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 31 (M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 31 (M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 31 (M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 61 (M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 61 (M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Ethernet and Mono-LOK 10 (H-M-M) CI High Speed HDMI Coble with Etherne	High-Speed HDMI Cables with Ether	net and Mono*LOK TM	
High Speed HDML Coble with Ethernet and Mono-LOS 31 (M-M) CI High Speed HDML Coble with Ethernet and Mono-LOS 31 (M-M) CI High Speed HDML Coble with Ethernet and Mono-LOS 41 (M-M) CI High Speed HDML Coble with Ethernet and Mono-LOS 41 (M-M) CI High Speed HDML Coble with Ethernet and Mono-LOS 41 (M-M) CI High Speed HDML Coble with Ethernet and Mono-LOS 41 (M-M) CI High Speed HDML Coble with Ethernet and Mono-LOS 10 ft (M-M) CI High Speed HDML Coble with Ethernet and Mono-LOS 10 ft (M-M) CI High Speed HDML Coble with Ethernet and Mono-LOS 10 ft (M-M) CI High Speed HDML Coble with Ethernet and Mono-LOS 10 ft (M-M) CI High Speed HDML Coble with Ethernet and Mono-LOS 10 ft (M-M) CI High Speed HDML Coble with Ethernet and Mono-LOS 10 ft (M-M) CI High Speed HDML Coble with Ethernet and Mono-LOS 10 ft (M-M) CI High Speed HDML Coble with Ethernet and Mono-LOS 10 ft (M-M) CI HIGH Speed HDML Coble with Ethernet and Mono-LOS 10 ft (M-M) CI HIGH Speed HDML Coble with Ethernet and Mono-LOS 10 ft (M-M) CI HIGH Speed HDML COBLE with Ethernet and Mono-LOS 10 ft (M-M) CI HIGH Speed HDML COBLE with Ethernet and Mono-LOS 10 ft (M-M) CI HIGH Speed HDML COBLE with Ethernet and Mono-LOS 10 ft (M-M) CI HIGH Speed HDML COBLE with Ethernet and Mono-LOS 10 ft (M-M) CI HIGH Speed HDML COBLE with Ethernet and Mono-LOS 10 ft (M-M) CI HIGH Speed HDML COBLE with Ethernet and Mono-LOS 10 ft (M-M) CI HIGH Speed HDML COBLE with Ethernet and Mono-LOS 10 ft (M-M) CI HIGH Speed HDML COBLE with Ethernet and Mono-LOS 10 ft (M-M) CI HIGH Speed HDML COBLE with Ethernet and Mono-LOS 10 ft (M-M) CI HIGH Speed HDML COBLE with HDML Coble with Ethernet and Mono-LOS 10 ft (M-M) CI HIGH Speed HDML COBLE with	CAB-HD-LCK-01MM	High Speed HDMI Cable with Ethernet and Mono-LOK 1 ff (M-M)	CI
High Speed HDM Cable will Ethemet and Mone-UoK 61 (M-M) High Speed HDM Cable will Ethemet and Mone-UoK 10 ft (M-M) High Speed HDM Cable will Ethemet and Mone-UoK 10 ft (M-M) High Speed HDM Cable will Ethemet and Mone-UoK 10 ft (M-M) High Speed HDM Cable will Ethemet and Mone-UoK 15 ft (M-M) High Speed HDM Cable will Ethemet and Mone-UoK 15 ft (M-M) DVI to HDMI Cables AB-PUZHDM-LCK-06MM DVI to HDMI Lockina Cable 6 ft (M-M) DVI to HDMI Lockina Cable 6	CAB-HD-LCK-03MM	High Speed HDMI Cable with Ethernet and Mono-LOK 3 ff (M-M)	CI
CAB-HD-LCK-10MM	CAB-HD-LCK-06MM	High Speed HDMI Cable with Ethernet and Mono-LOK 6 ff (M-M)	CI
CAB-HD-LCK-15MM	CAB-HD-LCK-10MM	High Speed HDMI Cable with Ethernet and Mono-LOK 10 ff (M-M)	CI
DVI 10 HDMI Cables CAB-DVI2HDM-LCK-06MM DVI 16 HDMI Locking Cable 6 ff (M-M) DVI 16 HDMI Locking Cable 6 ff (M-M) CAB-DVI2HDM-LCK-10MM DVI 16 HDMI Locking Cable 6 ff (M-M) DVI 16 HDMI Locking Cable 6 ff (M-M) CI CAB-DVI2HDM-LCK-10MM DVI 16 HDMI Locking Cable 6 ff (M-M) DVI 16 HDMI Locking Cable 6 ff (M-M) CI VCA and Other Extenders EXT-VGA-1411SRN VGA Extender SRN Extender 1920x 1200 resolution VGA up 10 150 ff via one CAT-5e EXT-VGA-1411R VGA Extender 1R Extender 1920x 1200 resolution VGA up 10 130 ff via one CAT-5e EXT-VGA-AUDIO-141 VGA Audio Extender Extender 1920x 1200 resolution VGA up 10 130 ff via one CAT-5e EXT-VGA-AUDIO-141 VGA R3232 extender Extender 1920x 1200 resolution VGA and analog audio up 10 150 ff via one CAT-5e EXT-VGA-S232-141 VGA R3232 extender Extender 1920x 1200 resolution VGA and extender Extender 1920x 1200x 1200 resolution VGA and extender Extender 1920x 1200x 1200 resolution VGA and extender Extender 1920x 1200x 1200x 1200 resolution VGA and extender Extender 1920x 1200x 1	CAB-HD-LCK-15MM	High Speed HDMI Cable with Ethernet and Mono-LOK 15 ft (M-M)	CI
CAB-DV12HDMI-LCK-06MM DV1 to HDMI Locking Cable 6 If (M-M) DV1 to HDMI Locking Cable 10 If (M-M) DV1 Kable 19 If (M-M)	DVI TO HDMI Cables	Ingrispeda no easie wiintement and word box for it (wild)	
VICA and Other Extenders	CAB-DVI2HDMI-LCK-06MM		CI
EXT-VGA-1411R VGA Extender SRN Extends 1920x 1200 resolution VGA up to 150 ff via one CAT-5e EXT-VGA-1411R VGA Extender IR Extends 1920x 1200 resolution VGA up to 330 ff via one CAT-5e EXT-VGA-AUDIO-141 VGA Audio Extender CEXT-VGA-AUDIO-141 VGA valoie Extends 1920x 1200 resolution VGA and analog audio up to 150 ff via one CAT-5e EXT-VGA-RS232-141 VGA 8232 Extender CEXT-SEXT-VGA-SEXT-V	CAB-DVI2HDMI-LCK-10MM	DVI to HDMI Locking Cable 10 ff (M-M)	CI
EXT-VGA-1411R VGA Extender SRN Extends 1920x 1200 resolution VGA up to 150 ff via one CAT-5e EXT-VGA-1411R VGA Extender IR Extends 1920x 1200 resolution VGA up to 330 ff via one CAT-5e EXT-VGA-AUDIO-141 VGA Audio Extender CEXT-VGA-AUDIO-141 VGA valoie Extends 1920x 1200 resolution VGA and analog audio up to 150 ff via one CAT-5e EXT-VGA-RS232-141 VGA 8232 Extender CEXT-SEXT-VGA-SEXT-V	VGA and Other Extenders		
Extends 1920x1200 resolution VGA up to 330 ft via one CAT-5e EXT-VGA-AUDIO-141 VGA Audio Extender Extends 1920x1200 resolution VGA and analog audio up to 150 ft via one CAT-5e EXT-VGARS232-141 VGA RS232 Extender Extends VGA and RS232 up to 330 ft via one CAT-5e EXT-RS232 RS232 extender Extends RS2322 up to 1000 ft via one CAT-5e EXT-AUD-1000 Audio Extender Extends analog stereo audio and microphone up to 1000 ft Couplers DVI Couplers DVI Couplers DVI Couplers DVI Couplers DVI Couplers ADA-DVI-FFN DVImate (Female to Female DVI coupler) DVImate (Female to Female DVI coupler) Extends Adapter w/t Mono-LOK Female to Female Adapter with Mono-Lok ACCessories EXT-RMT-EXTIR RMT IR Extender Relocate your switcher up to 6 feet away from the IR Sensor EXT-RMT-EXTIRN REstender Module with Carrier Frequency Extender IR sensor up to 6 feet away. EXT-RACK-1U Rack Tray Rack Tray LI Rack Tray Rack Tray Rock Tray Forey Finish LI Rack Tray CI Rock Tray Digital Signage EXT-RD-DSMP HD Digital Signage Rouse with Int-IP Plus CI Extraporation and signage Rouse with Int-IP Plus CI REXT-RD-DSMPPN Digital Signage Rouse with Int-IP Plus CI CI DISTANCE AND	EXT-VGA-141SRN		CI
Extends 1920x1200 resolution VGA and analog audio up to 150 ft via one CAT-5e EXT-VGARS232-141 VGA RS232 Extender Extends RS232 up to 1000 ft via one CAT-5e EXT-RS232 RS232 extender Extends RS232 up to 1000 ft via one CAT-5e EXT-AUD-1000 Audio Extender Extends analog stereo audio and microphone up to 1000 ft Couplers DVI Mate (Female to Female DVI coupler) CI DVImate (Female to Female DVI coupler) CI Extenders one Interest of the Adapter w/ Mono-LOK Female Adapter w/ Mono-LOK Female Adapter w/ Mono-Lok Accessories EXT-RMT-EXTIR RMT IR Extender Relocate your switcher up to 6 feet away from the IR Sensor EXT-RMT-EXTIRN IR Extender Module with Carrier Frequency Extender IR sensor up to 6 feet away. EXT-RACK-TU 1U Rack Tray CI Rack Tray CI Rack Tray or select Gefen half-rack-width products. See website for details. U Rack Tray - Gray Finish Digital Signage EXT-HD-DSMP No Digital Signage Player with Wi-IF Plus CI Digital Signage Content with both digital and analog connections Digital Signage Player with Wi-IF Plus CI	EXT-VGA-141LR		CI
Extends VGA and R\$232 up to 330 ft via one CAT-5e EXT-R\$232 R\$232 extender Extends 8:232 up to 1000 ft via one CAT-5e EXT-AUD-1000 Audio Extender Extends analog stereo audio and microphone up to 1000 ft Couplers DVI Couplers DVI Couplers DVI Couplers ADA-DVI-FFN DVI mate (Female to Female DVI coupler) DVI mate (Female to Female DVI coupler) Extender sone to Female to Female DVI coupler) ADA-HDMI-FF HDMI Mate Adapter w/ Mono-LOK Female to Female Adapter with Mono-Lok Accessories IR Extenders and Emitters EXT-RMT-EXTIR RMT IR Extender Relocate your switcher up to 6 feet away from the IR Sensor EXT-RMT-EXTIRN IR Extender Module with Carrier frequency Extender IR sensor up to 6 feet away. EXT-RACK-1U 1U Rack Tray Rack Tray for select Gefen half-rack-width products. See website for details. EXT-RACK-1U-GRY U Rack Tray - Gray Finish 1U Rack Tray - Gray Fini	EXT-VGA-AUDIO-141		CI
EXT-AUD-1000 Extends RS232 up to 1000 ff via one CAT-5e Audio Extends analog stereo audio and microphone up to 1000 ff Couplers DVI Couplers DVI Couplers DVI Couplers DVI Couplers DVImate (Female to Female DVI coupler) ADA-D-DVI-FFN DVImate (Female to Female DVI coupler) ADA-HDMI-FF HDMI Mate Adapter w/ Mono-LOK Female to Female Adapter with Mono-Lok ACCESSORIES IR Extenders and Emitters EXT-RAT-EXTIR RMT IR Extender RNT IR Extender RNT IR Extender RNT IR Extender RNT IR Extender Module with Carrier Frequency Extrander IR sensor up to 6 feet away. CI Extender IR sensor up to 6 feet away. CI EXT-RACK-1U Rack Tray Rock Tray Rock Tray TU Rack Tray Rock Tray for select Gefen half-rack-width products. See website for details. CI Couplers CI Couplers CI CI CI CI CI CI CI CI CI C	EXT-VGARS232-141		CI
EXT-AUD-1000 Audio Extender Extends analog stereo audio and microphone up to 1000 ff Couplers DVI Couplers DVI Couplers DVImate (Female to Female DVI coupler) DVImate (Female to Female DVI coupler) DVImate (Female to Female DVI coupler) ADA-HDMI-FF HDMI Mate Adapter w/ Mono-LOK Female to Female Adapter with Mono-Lok ACCessories IR Extenders and Emitters EXT-RMT-EXTIR RMT IR Extender Relocate your switcher up to 6 feet away from the IR Sensor EXT-RMT-EXTIRN IR Extender Module with Carrier Frequency Extender IR sensor up to 6 feet away. CI EXT-RACK-1U 1U Rack Tray Rack Tray for select Gefen half-rack-width products. See website for details. CI EXT-RACK-1U-GRY 1U Rack Tray - Gray Finish 2CI EXT-RD-DSMP HD Diattal Sianage Media Plaver It provides an effective means to play and schedule digital signage content with both digital and analog connections Digital Signage Player with Wi-Fi Plus CI	EXT-RS232		CI
Couplers DVI Couplers ADA-DVI-FFN DVI mate (Female to Female DVI coupler) DVImate (Female to Female DVI coupler) DVImate (Female to Female DVI coupler) ADA-HDMI-FF HDMI Mate Adapter w/ Mono-LOK Female to Female Adapter with Mono-Lok Accessories IR Extenders and Emitters EXT-RAIT-EXTIR Relocate your switcher up to 6 feet away from the IR Sensor EXT-RAIT-EXTIRN IR Extender Module with Carrier Frequency Extender IR sensor up to 6 feet away. EXT-RACK-1U 1U Rack Tray Rack Tray Graselect Gefen half-rack-width products. See website for details. EXT-RACK-1U-GRY IU Rack Tray - Gray Finish UN Rack Tray - Gray Finish	EXT-AUD-1000	Audio Extender	CI
ADA-DVI-FFN DVImate (Female to Female DVI coupler) DVImate (Female to Female DVI coupler) ADA-HDMI-FF HDMI Mate Adapter w/ Mono-LOK Female to Female Adapter with Mono-Lok Accessories IR Extenders and Emitters EXT-RMT-EXTIR Relocate your switcher up to 6 feet away from the IR Sensor EXT-RMT-EXTIRN IR Extender Module with Carrier Frequency Extender IR sensor up to 6 feet away. CI Rack Tray Rext-RACK-1U 1U Rack Tray Rack Tray for select Gefen half-rack-width products. See website for details. EXT-RACK-1U-GRY 1U Rack Tray - Gray Finish 2CI EXT-HD-DSMP HD Diaital Signage Media Player 1t provides an effective means to play and schedule digital signage content with both digital and analog connections EXT-HD-DSWFPN Diaital Signage Player with Wi-Fi Plus CI	Couplers		
DVImate (Female to Female DVI coupler) ADA-HDMI-FF HDMI Mate Adapter w/ Mono-LOK Female to Female Adapter with Mono-Lok Accessories IR Extenders and Emitters EXT-RMT-EXTIR RMT IR Extender Relocate your switcher up to 6 feet away from the IR Sensor EXT-RMT-EXTIRN IR Extender Module with Carrier Frequency Extender IR sensor up to 6 feet away. Rack Trays EXT-RACK-1U 1U Rack Tray Rack Tray for select Gefen half-rack-width products. See website for details. EXT-RACK-1U-GRY 1U Rack Tray - Gray Finish 2CI EXT-HD-DSMP Digital Signage Player with Wi-Fi Plus CI EXT-HD-DSWFPN Digital Signage Player with Wi-Fi Plus CI	DVI Couplers	DVI serbe (Formula de Formula DVI pourday)	C 1
Female to Female Adapter with Mono-Lok Accessories IR Extenders and Emitters EXT-RMT-EXTIR RMT IR Extender Relocate your switcher up to 6 feet away from the IR Sensor EXT-RMT-EXTIRN IR Extender Module with Carrier Frequency Extender IR sensor up to 6 feet away. Rack Trays EXT-RACK-1U Rack Tray for select Gefen half-rack-width products. See website for details. EXT-RACK-1U-GRY IU Rack Tray - Gray Finish IU Rack Tray - Gray Finish UR Rack T		DVImate (Female to Female DVI coupler)	
REXT-RMT-EXTIR RMT IR Extender Relocate your switcher up to 6 feet away from the IR Sensor EXT-RMT-EXTIRN IR Extender Module with Carrier Frequency Extender IR sensor up to 6 feet away. Rack Trays EXT-RACK-1U 1U Rack Tray Rack Tray for select Gefen half-rack-width products. See website for details. EXT-RACK-1U-GRY 1U Rack Tray - Gray Finish 2CI BYT-HD-DSMP HD Digital Signage EXT-HD-DSMP Ut provides an effective means to play and schedule digital signage content with both digital and analog connections EXT-HD-DSWFPN Digital Signage Player with Wi-Fi Plus CI			CI
RMT IR Extender Relocate your switcher up to 6 feet away from the IR Sensor EXT-RMT-EXTIRN IR Extender Module with Carrier Frequency Extender IR sensor up to 6 feet away. Rack Trays EXT-RACK-1U 1U Rack Tray Rack Tray for select Gefen half-rack-width products. See website for details. EXT-RACK-1U-GRY 1U Rack Tray - Gray Finish 1U Rack Tr	Accessories		
Relocate your switcher up to 6 feet away from the IR Sensor IR Extender Module with Carrier Frequency Extender IR sensor up to 6 feet away. Rack Trays EXT-RACK-1U IU Rack Tray Rack Tray for select Gefen half-rack-width products. See website for details. EXT-RACK-1U-GRY IU Rack Tray - Gray Finish IU Rack Tray -			
Extender IR sensor up to 6 feet away. Rack Trays EXT-RACK-1U 1U Rack Tray Rack Tray for select Gefen half-rack-width products. See website for details. EXT-RACK-1U-GRY 1U Rack Tray - Gray Finish Cefen DS - Digital Signage EXT-HD-DSMP HD Digital Signage Media Player It provides an effective means to play and schedule digital signage content with both digital and analog connections EXT-HD-DSWFPN Digital Signage Player with Wi-Fi Plus CI CI		Relocate your switcher up to 6 feet away from the IR Sensor	
EXT-RACK-1U 1U Rack Tray Rack Tray for select Gefen half-rack-width products. See website for details. EXT-RACK-1U-GRY 1U Rack Tray - Gray Finish 1U Rack Tray - Gray Finish CI Pack Tray - Gray Finish CI UR Rack Tray - Gray Finish UR Rack Tray - Gray Finish CI Digital Signage EXT-HD-DSMP HD Digital Signage Media Player It provides an effective means to play and schedule digital signage content with both digital and analog connections EXT-HD-DSWFPN Digital Signage Player with Wi-Fi Plus CI			CI
Rack Tray for select Gefen half-rack-width products. See website for details. IU Rack Tray - Gray Finish IU Rack Tray - Gray Finish Gefen DS - Digital Signage EXT-HD-DSMP HD Digital Signage Media Player It provides an effective means to play and schedule digital signage content with both digital and analog connections EXT-HD-DSWFN Digital Signage Player with Wi-Fi Plus CI		W Day L Zang	A.
TU Rack Tray - Gray Finish Gefen DS - Digital Signage EXT-HD-DSMP HD Digital Signage Media Player It provides an effective means to play and schedule digital signage content with both digital and analog connections EXT-HD-DSWFPN Digital Signage Player with Wi-Fi Plus CI CI		Rack Tray for select Gefen half-rack-width products. See website for details.	
EXT-HD-DSMP HD Digital Signage Media Player It provides an effective means to play and schedule digital signage content with both digital and analog connections EXT-HD-DSWFPN Digital Signage Player with Wi-Fi Plus CI			CI
It provides an effective means to play and schedule digital signage content with both digital and analog connections EXT-HD-DSWFPN Digital Signage Player with Wi-Fi Plus CI			
	EXT-HD-DSMP	It provides an effective means to play and schedule digital signage content with both digital and analog connections	
	EXT-HD-DSWFPN		<u>CI</u>







GGEFEN.

GGEFEN.

GefenToolBox® Product Line		
Splitters, Switchers, and Matrixes fo		
GTB-HD4K2K-142C-BLK	1:2 Splitter for HDMI 4Kx2K with Cascading Capability Distributes one Ultra Hi-Def source to two Ultra HD displays simultaneously	CI
GTB-HD4K2K-144C-BLK	1:4 Splitter for HDMI 4Kx2K with Cascading Capability Distributes one Ultra Hi-Def source to four Ultra HD displays simultaneously	CI
GTB-HD4K2K-148C-BLK	1:8 Splitter for HDMI 4Kx2K with Cascadina Capability Distributes one High-Def source to eight Ultra HD displays	CI
GTB-HD4K2K-441-BLK	4x1 Switcher for HDMI 4K x 2K Switch four HD sources to one display	CI
GTB-HD4K2K-442-BLK	4x2 Matrix for HDMI 4Kx2K Route four HD sources to two displays	CI
GTB-HD4K2K-444-BLK	4x4 Matrix for HDMI 4Kx2K Route four HD sources to four displays	CI
GTB-HD4K2K-642-BLK	6x2 Matrix for HDMI 4Kx2K Route six HD sources to two displays	CI
GTB-HD4K2K-848-BLK	4K Ultra HD 8x8 Matrix for HDMI Routes eight 4K Ultra HD sources to eight displays	CI
HD Signal Generator	The second again we will a tea second a digit was prays	
GTB-HD-SIGGEN	HD Pattern Signal Generator Evaluate, Calibrate, and Test Digital Video Equipment	CI
4K Ultra HD HDBaseT™ Extenders		
GTB-UHD2IRS-ELRPOL-BLK	4K Ultra HD ELR-POL Extender w/ RS-232 and 2-way IR Extends HDMI, RS-232, and Bi-Directional IR over a single CAT-5 cable up to 495 feet (150 meters)	CI
GTB-HDBT-POL-BLK	Extender for HDMI with POL Extends HDMI up to 230 ft (70 m) over one CAT-5e cable up to 1080p Full HD	CI
USB 2.0 Extender	Substituting to 200 in (10 mi) of an one of a december op to 1000p for the	
GTB-USB2.0-4LR-BLK	USB 2.0 LR 4-Port Extender (Black) Extends a USB source up to 330 feet using a single CAT-5e cable	CI
Scaler	Existing a consisting to the control of the control	
GTB-HD-1080PS-BLK	High Definition 1080p Scaler - Black Scale one HDMI input with HDCP to one HDMI output with up to 1080p Full HD and Deep Color	CI
Daisy Chain Extender for HDMI		
GTB-HD-DCR-BLK	Daisy Chain HD System - Receiver Unit Distribute video to multiple displays in series using Video Over IP techniques	
GTB-HD-DCRP-BLK	Daisy Chain HD System - Splitter Unit Distribute video to multiple displays in series using Video Over IP techniques	
GTB-HD-DCS-BLK	Daisy Chain HD System - Sender Unit Distribute video to multiple displays in series using Video Over IP techniques	
GefenTV® Product Line Extenders for HDMI		
GTV-WHD-60G	Wireless for HDMI 60 GHz Extender System	CI
Converters, Scalers and Switc	Sends high definition audio and video to any HDTV display up to 33 feet (10 meters)	
GTV-DVIDL-2-MDP	Dual Link DVI to Mini DP Converter View any PC or Mac with audio support on a display using mini DisplayPort	
GTV-HDMI-2-COMPSVIDSN	HDMI to Composite / S-Video Scaler Transforms HDMI video into Composite or S-Video	CI
GTV-COMPSVID-2-HDMIS	Composite to HDMI Scaler	CI
GTV-HDMI1.3-441N	Transforms composite or S-Video into scaled HDMI video 4x1 Switcher for HDMI with RS232 Shares a single UDIV disalary with up to 4 HDMI video sources with HDCR and BS222 support	CI
Audio Splitters, Switchers, and	Shares a single HDTV display with up to 4 HDMI video sources with HDCP and RS232 support	
GTV-DIGAUD-2-AAUD	Digital Audio to Analog Adapter	CI
GTV-AAUD-2-DIGAUD	Converts digital audio to L/R analog audio Analog to Digital Audio Adapter Talca problem distinct and the digital via TOSUNK (CDD).	CI
GTV-DD-2-AA	Takes analog audio and converts it to digital via TOSLINK / SPDIF Digital Audio Decoder Converts digital audio to analog audio with support for Dolby to create surround sound audio	CI
GTV-DIGAUDT-141	Digital Audio Translator Converts coaxial and optical digital audio formats	CI
GTV-HDMI-2-HDMIAUD	HDMI to HDMI Plus Audio Converter Converts Hi-Def source using HDMI with HDCP and outputs to an HDTV display with up to 8 channels of LPCM audio	CI
GefenPRO® Product Line	Technens hebei source using mumi much and outputs to an num asplay with up to 8 channels of trem addio	
Matrixes GEF-DVIKVM-848DL-PB	8x8 DVI KVM Dual Link Matrix w/ Push Button Control	
GEF-HDFST-MOD-16416-HD	Route DVI, USB, and Audio from eight computers to eight Hi-Def workstations 16 x 16 Modular Matrix for HDMI w/ HDCP - HDMI In/Out	
GEF-HDFST-MOD-16416-HDELR	16X16 Modular Matrix For HDMI w/ HDCP - HDMI In/Out 16 x 16 Modular Matrix for HDMI w/ HDCP - HDMI In/ELR Out	
GEF-HDFST-MOD-32432-HD	16x16 Modular Matrix for HDMI w/ HDCP - HDMI In/ELR Out 32 x32 Modular Matrix for HDMI w/ HDCP - HDMI In/Out	
GEF-HDFST-MOD-32432-HDELR	32x32 Modular Matrix for HDMI w/ HDCP - HDMI In/HDMI Out 32 x32 Modular Matrix for HDMI w/ HDCP - HDMI In/ELR Out	
GEF-DVI-16416-PB	32x32 Modular Matrix for HDMI w/ HDCP - HDMI In/ELR Out 16x16 DVI Matrix with Front Panel Push Button Control	
	Routes 16 DVI Sources with 16 Monitors	
GFF-DVI-FM1500	DVI FM1500 Ontical DVI Extender with Recordable FDID	
GEF-DVI-FM1500	DVI FM1500 Optical DVI Extender with Recordable EDID Extends a DVI source up to 3280 feet (1000 meters) using single-strand SC-terminated fiber optic cable	



GGEFEN.

GGEFEN.



