

# USB, RS-232, and Audio Extenders

## GTB-USB2.0-4LR-BLK

### USB 2.0 LR 4-Port Extender



- Extends USB 2.0 up to 330 feet
- Supports 480 Mbps using USB 2.0
- Backward-compatible with USB 1.1 devices
- Receiver supports up to four (4) USB devices
- Uses industry-standard CAT-5, CAT-5e, or CAT-6 cable
- Plug-and-Play
- Works with PC and Mac computers
- Locking Power Connectors

## EXT-USB2.0-SR

### USB 2.0 SR Extender over one CAT-5



- Extends USB 2.0 peripherals up to 165ft (50m) away from a computer
- Supports USB 1.1 and 2.0
- Uses industry-standard CAT-5e or better cable
- Supports all major operating systems -- Windows, macOS and Linux
- True plug-and-play, 100% hardware solution with no drivers required
- Can support the full 480 Mbps speed of USB 2.0
- Receiver supports a powered USB connection up to 2A at 5V
- Sturdy metal construction of the enclosures help provide immunity against Electro-Magnetic Interference (EMI) and radiated noise (RFI)
- Compact enclosures are easy to install and can be hidden away

## EXT-USB2.0-LR

### USB 2.0 Extender



- Operate USB 2.0 peripherals up to 330ft from a computer
- Supports low and high-speed USB
- Uses industry-standard CAT5, CAT5e, or CAT6 cable
- Supports all major operating systems – Windows, Mac OS X and Linux
- True plug-and-play, 100% hardware solution with no drivers required
- Operates at full 480 Mbps speed when running in USB 2.0 mode
- Receiver supports up to 2 USB powered connections at 500 mA each

## EXT-RS232

### RS232 Extender



- Extends any RS-232 compliant device up to 1000 feet from the computer
- Supports the full 9-pin RS-232 standard with a maximum data transfer rate of 115,200 baud
- Perfect for digital signage applications
- Only one CAT-5e cable required for extension
- Power only required on Sender unit

## EXT-DIGAUD-141

### Digital Audio Extender



- Extends any S/PDIF and TOSLINK® digital audio device up to 330 feet from the source
- Supports multichannel digital audio like Dolby® Digital 5.1, DTS, and Dolby® TrueHD
- Supplies clear digital audio over long distances as if connected locally
- Streamlines audio installations by allowing source devices to be located in off-site or unseen rack
- One CAT-5e cable used for extension
- Audio is transmitted digitally for zero signal loss

## EXT-AUD-1000

### Audio Extender



- Extends any unbalanced analog audio device up to 1000 feet from the source
- One CAT-5e cable used for extension
- Bidirectional transmission for speaker and mic

# Presentation Switchers

## EXT-4K300A-MF-41-HBTLS

4K Ultra HD Multi-Format 4x1  
Scaler/Switcher w/ Auto-Switching  
& HDBaseT™ Output



- Inputs:
  - 1x HDMI
  - 1x DisplayPort™
  - 1x DVI
  - 1x VGA
- Outputs:
  - 1x HDMI
  - 1x HDBaseT™
  - 1x L/R Analog
- HDMI and DisplayPort™ inputs support up to 300 MHz TMDS clock and 10.2 Gbps data throughput
- VGA and DVI feature scaling up to 1920 x 1200 with picture adjustment capabilities
- HDBaseT™ extension up to 130 feet/40m at 4K and 230 feet/70m at 1080p
- RS-232 and IR pass-through and unit control
- Analog audio breakout
- Dry contact for input switching
- Works with Gefen Syner-G™ software
- Advanced EDID Management
- Field-updateable firmware via USB port
- Locking power connector
- Power over HDBaseT™ (POH) provides power to the Sender from a compatible Receiver unit over the link cable
- Low-profile shelf-top or surface-mountable enclosure

NEW

## EXT-4K600A-MF-51-HBTLS

4K Ultra HD Multi-Format 5x1  
Scaler/Switcher w/ Auto-Switching  
& HDBaseT™ Output



- Inputs:
  - 3x HDMI
  - 1x DisplayPort™
  - 1x VGA
  - 5x L/R Analog
  - 1x Mic or Line Level Balanced with 48V Phantom Power
- Outputs:
  - 1x HDMI
  - 1x HDBaseT™
  - 1x L/R Analog
- Independent video and audio switching
- Supports up to 600 MHz TMDS clock and 18 Gbps data throughput
- HDMI and DisplayPort™ inputs support up to 4K 60 Hz 4:4:4
- Scaling on all inputs to 3840 x 2160 30 Hz 4:4:4 with picture adjustment capabilities
- Balanced and single-ended microphone support with audio ducking feature
- Switchable 48V Phantom Power for microphone
- Switchable Mic/Line Balanced Input
- HDBaseT™ extension range up to 130 feet/40m at 4K and 230 feet/70m at 1080p
- Control options include the front panel, handheld IR remote, IR, RS-232, Telnet, UDP, and web server interface
- RS-232 and IR pass-through and unit control
- Analog audio breakout
- Discrete contact closures for input switching
- Works with Gefen Syner-G™ software
- Advanced EDID Management
- Field-updateable firmware via USB port
- Locking power connector
- Power over HDBaseT™ (POH) provides power to the Sender from a compatible Receiver unit over the link cable
- 1U tall shelf-top or surface-mountable enclosure

## EXT-MFP

Multi-Format Presentation Switcher



- Independent and configurable video routing for HDMI, DVI, VGA, DisplayPort, Composite, and audio
- 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
- Works with Gefen Syner-G™ software
- 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

# Converters & Scalers

## GTV-COMPSVID-2-HDMIS

### Composite to HDMI Scaler



- Inputs S-Video or Composite Video at 480i or 576i resolutions
- Outputs HDMI video at resolutions of up to 1080p
- Input resolution is automatically detected while the output resolution and refresh rate can be selected via the on-screen display (OSD) menu system and front panel push-buttons
- 48MB frame buffer for frame rate conversion
- Scales Composite Video and S-Video to HDMI with embedded audio
- Supports video output resolutions for computer equipment at up to 1920x1200

## EXT-DVI-2-VGAN

### DVI to VGA Converter



- Enables DVI source to be displayed on VGA monitor or projector
- Supports resolutions up to 1920x1200
- EDID Management for rapid integration of source and display
- Built-in EDID switch allows choice between local EDID and external EDID

## EXT-VGA-DVI-SC

### VGA to DVI Scaler/Converter



- 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
- USB port for use with Gefen Syner-G™
- Test Pattern Generator for quick system configuration
- Gefen Syner-G™ simplifies in-field firmware updates and advanced EDID management including custom input timings
- Wide power supply operating range (6V to 24V DC)
- Locking power supply connector
- Surface mountable

## EXT-VGAA-HD-SC

### VGA & Audio to HD Scaler/Converter



- 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

# Converters & Scalers

## EXT-3G-HD-C

### HDMI to 3GSDI Converter



- Converts SDI to HDMI 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 up to 10 bit color on input and output
- Up to LPCM 7.1 audio support
- Mini USB port for use with Gefen Syner-G™
- Wide power supply operating range (6V to 24V DC)

## EXT-HD-3G-C

### 3GSDI to HDMI Converter



- Converts up to 1920 x 1200 (WUXGA) & 1080p Full HD
- Output resolutions up to 1080p Full HD
- HDMI (YCbCr 4:4:4) or DVI (RGB 4:4:4) output modes
- Supports HDMI 12 bit color and SDI 10-bit color
- Up to LPCM 7.1 audio support
- Mini USB port for use with Gefen Syner-G™
- Wide power supply operating range (6V to 24V DC)

## EXT-HDVGA-3G-SC

### HDMI & VGA & Audio to 3GSDI Converter



- Converts and scales HDMI and VGA and L/R analog audio to SDI
- Supports resolutions up to 1920x1200
- Aspect Ratio Control: Full Screen, Panoramic, Letter/Pillar, Extract/Crop
- Test Pattern Generator for system configuration
- Gefen Syner-G™ simplifies in-field firmware updates and advanced EDID management including custom input timings



# Audio Converters

## GTV-DIGAUD-2-AAUD

### Digital Audio to Analog Adapter



- Converts S/PDIF or TOSLink digital audio signals to analog L/R audio
- Digital interpolation filter and digital to analog converter (DAC)
- Accepts uncompressed digital audio as input
- Samples at 32, 44.1, 48 and 96 KHz
- 2-channel LPCM (Linear Pulse Code Modulation)
- 24-bit S/PDIF incoming bitstream on left and right channels
- Compact and easy to install

## GTV-AAUD-2-DIGAUD

### Analog to Digital Audio Adapter



- Converts analog L/R signals to digital S/PDIF or TOSLink
- Compact and easy to install
- Simple to Operate
- Supports 48 kHz output sampling frequency
- Coaxial and optical output ports
- Right and Left RCA Stereo input ports
- Supports optical cable run of up to 5 meters (15 feet)
- Signal To Noise Ratio: >90dB (20Hz-20kHz A weight filter)
- THD+N < 0.01% at 1kHz at reference level
- Frequency Response: < +/- 0.5dB 20Hz-20kHz

## GTV-DD-2-AA

### Digital Audio Decoder



- Converts S/PDIF or TOSLINK digital audio to L/R analog audio
- Digital interpolation filter and digital to analog converter (DAC)
- Supports up to 6 channels (up to 5.1 Surround) of audio encoded in Dolby Digital
- Auto samples at frequencies of 32, 44.1, 48 KHz
- 24-bit incoming bitstream on left and right channels
- Allows listening to digital audio sources on legacy analog sound systems
- Compact and easy to install

## GTV-DIGAUDT-141

### Digital Audio Translator



- Compact size and easy to install
- Supports amplification of audio signal and extends distance for both output formats
- Supports two-way conversion: Coaxial to TOSLINK, or TOSLINK to Coaxial
- Supports input audio signal from two channels up to 5.1 channels.
- Select one input and send audio to both coax and TOSLINK outputs simultaneously





# EDID Detectives

## EXT-HD-EDIDPN

### HDMI Detective Plus



- Supports resolutions up to 1080p Full HD and 1920x1200 (WUXGA)
- USB port for advanced programming of features such as EDID management
- Configurable EDID using Gefen Syner-G™ software suite, downloadable from Gefen website
- DDC Re-clocking
- Records the EDID from a display
- 6 pre-programmed EDID profiles
- 6 user-programmable EDID banks for copying/uploading EDIDs
- Selectable HDCP pass-through
- Field updatable firmware via USB port
- Compact and portable

## EXT-HDBOOST-141

### Booster for HDMI with EDID Detective



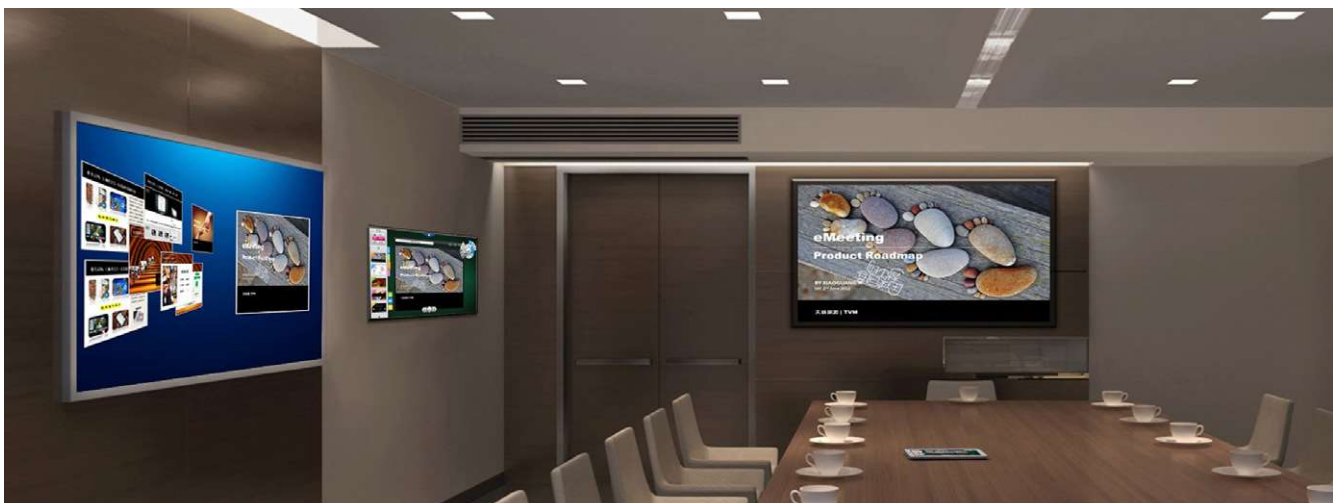
- Extends copper HDMI cables up to 115 feet at 4K Ultra HD and 4K Cinema (DCI)
- Extends copper HDMI cables up to 150 feet at 1080p Full HD Supported resolutions include 4K Ultra HD, 4K Cinema, 1080p Full HD, and 2048 x 1536 (QXGA)
- USB port for advanced programming of features such as video equalization, pre-emphasis, and EDID management
- Configurable EDID using Gefen Syner-G™ software suite, downloadable from Gefen website
- DDC Re-clocking
- EQ adjustment for best results with varying cable types and lengths
- Can record the EDID from a display
- 6 pre-programmed EDID profiles
- 6 user-programmable EDID banks for copying/uploading EDIDs
- Selectable HDCP pass-through
- Field updatable firmware via USB port
- Compact and portable

## EXT-DVI-EDIDP

### DVI Detective Plus



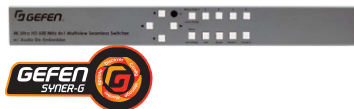
- Supports resolutions up to 1920x1200, 2K, and 3840x2400 (Dual Link)
- Quick and easy way to store EDID information from any DVI display
- Provides a virtual EDID to maintain active monitor status when switching away from a source
- HDCP pass-through
- Records the EDID from a display
- 5 pre-programmed EDID profiles
- EDID write protection switch
- No power is required after initial programming
- Compact and portable



# Seamless and Multiview Switchers and Video Wall Controllers

## EXT-UHD600A-MVSL-41

4K Ultra HD 600 MHz 4x1  
Multiview Seamless Switcher  
w/ Audio De-Embedder



- Seamless switcher scales and sizes each of the four inputs, and outputs them one at a time or as windows on a single display
- Input resolution (per input) up to 1080p Full HD
- Output resolution up to 4K Ultra HD 600 MHz (60 Hz, 4:4:4)
- HDCP 1.4 compliant
- Seamless switching ensures no switching delay and no picture loss during transitions
- Default pre-configured Multiview window arrangements can be accessed via front panel preset push-buttons and all other available interfaces
- Custom user-configurable Multiview window layouts can be accessed via front panel preset push-buttons and all other available interfaces
- User-selectable playback of HDMI audio content from any of the four inputs
- Built-in Audio De-Embedder breaks out 2 channel analog audio from the HDMI signal, allowing the audio content to be sent to external amplifiers and music distribution systems for added impact
- Controllable via front panel controls, IR, IP (web server interface, Telnet, and UDP), and RS-232
- Enhanced API for added functionality with third-party control systems
- Easy to use on-screen Graphical User Interface (GUI) and web server interface
- Handheld IR remote control and IR Extender input on back panel
- Field-updateable firmware via mini-USB port and Gefen Syner-G™ software
- Locking power supply connector
- 1U tall rack-mountable enclosure, rack ears included

## EXT-HD-VWC-144

HD Video Wall Controller



- Create a 2x2 video wall from any Hi-Def source, using four HDTV displays
- Split and scale a single Hi-Def source to four displays
- Input and Output resolutions up to 1080p Full HD and 1920x1200 (WUXGA)
- HDCP compliant
- Advanced Bezel Compensation feature provides compatibility with virtually any screen frame width, and allows for accurate display of the image
- Controllable via front panel, IR, IP (web server interface, Telnet, and UDP), and RS-232
- Easy to use on-screen Graphical User Interface
- Advanced web server interface using an external computer
- Handheld IR remote control
- Field-upgradeable firmware via web server interface
- USB port (reserved for future product enhancements)
- Locking power supply connector
- 1U tall rack-mountable enclosure, rack ears included

## EXT-UHD600A-VWC-14

4K Ultra HD 600 MHz Video Wall  
Controller w/ Audio De-Embedder



- Create a 2x2 video wall from a 4K Ultra HD 600 MHz source, using four HD displays
- Input resolution up to 4K Ultra HD 600 MHz (60 Hz, 4:4:4)
- Output resolution (per display) up to 1080p Full HD
- HDCP 2.2 and 1.4 compliant
- Advanced Bezel Compensation feature provides compatibility with virtually any screen frame width, and allows for accurate display of the image
- Built-in Audio De-Embedder breaks out 2 channel analog audio from the HDMI signal, allowing the audio content to be sent to external amplifiers and music distribution systems for added impact
- Controllable via front panel, IR, IP (web server interface, Telnet, and UDP), and RS-232
- Enhanced API for added functionality with third-party control systems
- Easy to use on-screen Graphical User Interface (GUI)
- Advanced web server interface using an external computer
- Handheld IR remote control
- Field-updateable firmware via mini-USB port and Gefen Syner-G™ software
- Locking power supply connector
- 1U tall rack-mountable enclosure, rack ears included

# Seamless and Multiview Switchers and Video Wall Controllers

## EXT-HD-MVSL-441

### Multiview Seamless Switcher



- Seamless switcher scales and sizes each of the four inputs, and outputs them one at a time or as windows on a single display
- Input and Output resolutions up to 1080p Full HD and 1920x1200 (WUXGA)
- HDCP compliant
- Seamless switching ensures no switching delay and no picture loss during transitions
- Default pre-configured Multiview window arrangements can be accessed via five front panel preset push-buttons
- Custom user-configurable Multiview window layouts can be accessed via five front panel preset push-buttons
- Locking power supply connector
- User-selectable playback of HDMI audio content from any of the four inputs
- Controllable via front panel controls, IR, IP (web server interface, Telnet, and UDP), and RS-232
- Easy to use on-screen Graphical User Interface (GUI) and web server interface
- Handheld IR remote control and IR Extender input on back panel
- Field-upgradable firmware via web server interface
- USB port (reserved for future product enhancements)
- 1U tall rack-mountable enclosure, rack ears included

## EXT-HD-SL-444

### 4x4 Seamless Matrix for HDMI



- Seamless matrix scales each of its four inputs, and routes them to any or all of the four outputs without frame loss
- Input and Output resolutions up to 1080p Full HD and 1920x1200 (WUXGA)
- HDCP compliant
- Seamless switching ensures no switching delay and no picture loss during transitions
- Ten user-configurable routing presets can be accessed via front panel push-buttons
- Controllable via front panel controls, IR, IP (web server interface, Telnet, and UDP), and RS-232
- Easy to use on-screen Graphical User Interface (GUI)
- Handheld IR remote control and IR Extender input on back panel
- Field-upgradable firmware via web server interface
- USB port (reserved for future product enhancements)
- Locking power supply connector
- 1U tall rack-mountable enclosure, rack ears included