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DVI KVM over IP R

Extend and Distribute DVI, USB, RS-232, IR, and 2-way audio over a Local Area Network using any combination of HDMI, DVI, and VGA Senders and Receivers

Gefen

The DVI KVM over IP extends DVI, USB, 2-way analog audio, RS-232, and IR, over a Gigabit Local Area Network. Resolutions up to 1080p Full HD and 1920 x 1200 (WUXGA) are supported. HDMI digital audio is also supported when using HDMI sources and displays with HDMI-to-DVI adapters. 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 Note). Any combination of HDMI, DVI, and VGA Senders and Receivers can be used. Each Receiver unit has a built-in Ethernet switch and two additional RJ-45 Ethernet ports to allow for the connection of computers and other IP-enabled devices. USB 2.0 data rates up to 480 Mbps are supported in addition to backward-compatibility with USB 1.1. Each Receiver unit provides two USB ports with up to 500mA current draw per connector, providing access to keyboard, mouse, and other compatible devices. Bi-directional analog audio capability allows audio to be transported between the Sender and the Receiver units. The built-in mic pre-amp on the Receiver unit ensures compatibility with a variety of microphones. IR commands from the Receiver side can be extended to sources connected to any of the Senders units. RS-232 serial control can also be extended between each Sender and Receiver unit. The built-in Web server interface makes set-up and configuration simple and intuitive. The DVI KVM over IP is perfect for large scale remote workstation access and digital signage applications.

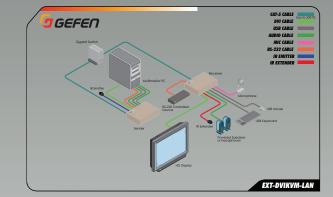
How It Works

If you are connecting multiple Sender units, use the built-in Web interface to assign a unique channel and/or switch between Sender units. Use the included DVI cable to connect a computer or other DVI source to the Sender's DVI input. Use the included USB and RS-232 cables to connect the computer's USB and RS-232 interfaces to the Sender unit. Connect audio Line In and audio Line Out as needed to the Sender. Connect a Gefen IR emitter to the Sender and attach it to the IR sensor lens of the source. Connect the DVI output of the Receiver to your Hi-Def display. Connect your USB devices, RS-232 devices, microphone, and headphones or amplified speakers to the Receiver unit. If the Receiver is not installed in the line-of-sight of the end-user, and IR commands will need to be sent to the source, connect a Gefen IR extender to the Receiver. 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. If the Sender is connected to your LAN, you can use the two additional RJ-45 ports on the Receiver to connect computers and other IP enabled devices. 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 button on the Sender to optimize the picture for sharper still images or smoother video motion. 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 Keyboard Switching Controller software (available for download at www.gefen.com).

Note: 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.

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Wiring Diagram









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Extends DVI, USB, RS-232, bi-directional stereo analog audio, and IR over IP, using a Gigabit Local Area Network	Three-port Gigabit Ethernet switch built into the Receiver unit
Any combination of HDMI, DVI, and VGA Senders and Receivers can be used	Switch between all available Sender units using the built-in Web interface
Supports resolutions up to 1080p Full HD and 1920 x 1200 (WUXGA)	Mode button on Sender for sharpness or motion optimization of image
Built-in Web interface for each Sender and Receiver unit provides intuitive control of all features	Field-upgradable firmware via web server interface
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 Keyboard Switching Controller software (available for download at www. gefen.com)	Locking power supply connectors
Supports a total of just over 65,000 Sender and Receiver units, depending on the network bandwidth and number of ports on your network switch	10 tall, half-rack width enclosures are rack-mountable using EXT-RACK-10
USB 2.0 data rates up to 480 Mbps and backward-compatibility with USB 1.1	Surface mounting brackets included

Maximum Pixel Clock:	165 MHz
Video Input Connector (Sender):	(1) DVI 29-pin, female, digital only
Video Output Connector (Receiver):	(1) DVI 29-pin, female, digital only
Line Input (Sender):	(1) 3.5mm mini-stereo jack
Line Output (Sender):	(1) 3.5mm mini-stereo jack
Mic Input (Receiver):	(1) 3.5mm mini-stereo jack
Line Output (Receiver):	(1) 3.5mm mini-stereo jack
USB Host Interface (Sender):	(1) USB Type B, female
USB Device Connectors (Receiver):	(2) USB Type A, female
RS-232 Connector (Sender):	(1) DB-9, female
RS-232 Connector (Receiver):	(1) DB-9, male
IR Emitter (Sender)	(1) 3.5mm mini-mono jack
IR Extender (Receiver)	(1) 3.5mm mini-stereo jack
Ethernet connector (Sender):	(1) RJ-45, shielded
Ethernet connectors (Receiver):	(3) RJ-45, shielded
Mode button (Sender):	(1) tact-type
Switch button (Receiver)	(1) tact-type
Reset button (Sender/Receiver):	(1) tact-type, recessed
Link Indicator (Sender/Receiver):	(1) LED, green
Power Indicator (Sender/Receiver):	(1) LED, blue
Power Supply (Sender/Receiver):	5V DC, locking
Power Consumption (Sender/Receiver):	10W (max.)
Dimensions (Sender/Receiver) (W x H x D):	8.4" x 1.7" x 4.5" (213mm x 43mm x 113mm)
Shipping Weight:	EXT-DVIKVM-LAN: 8.3 lbs. (3.8 kg) EXT-DVIKVM-LANTX: 5.7 lbs. (3.0 kg) EXT-DVIKVM-LANRX: 4.6 lbs. (2.0 kg)

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