

Emerge MPX1000

HD Multipoint Extender



High-definition audio and video extension

The Avocent Emerge™ MPX1000 HD multipoint extender provides wired or wireless connectivity for moving high-definition content from a source to one or more destinations incorporating High-Definition Multimedia Interface (HDMI™) technology. High resolution computer graphics, high-definition video, stereo audio, and control data are wirelessly transmitted to as many as eight wireless or LAN connected receivers.

The Emerge MPX1000 HD multipoint extender solution includes a transmitter and receiver that provide high-definition media support for use in professional audio-visual applications. Audio-video synchronization is maintained at each display and all wirelessly connected receivers remain in lock step with each other. Additional interchangeable modules are available for input/output of analog signals including computer graphics or digital HDMI/DVI signals.

For system control and configuration, the Emerge MPX1000 extender solution is accessible through two primary user interfaces: an on-board web server that allows browser-based unit control and configuration, and a front panel display that provides push-button access to system status. The extenders allow for control of attached audio-visual equipment through RS-232 serial and infrared connections. The Emerge MPX1000 product is field upgradeable to support future functionality.



MPX1000 Transmitter with HDMI Media Module



MPX1000 Receiver with HDMI Media Module

The Emerge MPX1000 HD multipoint extender solution includes a transmitter and receiver for wired or wireless professional audio-visual applications. Interchangeable modules are available for input of analog VGA signals or digital HDMI/DVI signals.

FEATURES AND BENEFITS

- **Wired or Wireless Extension.** Provides installation flexibility for wired or wireless high-definition applications.
- **Digital Input and Output.** Supports both HDMI and DVI-D for a complete digital signal from source to display.
- **Real-Time Compression.** Real-time compression allows the user to use a single device for transmitting either high resolution computer graphics or digital video.
- **IR Control.** Allows control to be sent to less expensive devices, and also allows control to be sent either from the transmitter to the displays, or from the displays to the transmitter.
- **Low Latency.** Less than eight frames total system latency from input at transmitter to output at receiver, making the Emerge MPX1000 suitable for live presentations as well as recorded media.
- **Web Control Interface.** Allows local or remote control and configuration of the system without special software tools.
- **Serial Interface.** Allows integration with third party control systems.
- **Optional Antenna.** The HGA51G-DIR30 directional antenna is available for extended distance requirements.
- **AES 128 Bit Encryption.** Audio-visual information is encrypted with built-in Advanced Encryption Standard (AES) for secure transmission.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

EMERGE™ MPX1000 HD MULTIPOINT EXTENDER SPECIFICATIONS

TRANSMITTER MECHANICAL / POWER / ENVIRONMENTAL

Size: 7.54 in. (192 mm) D, 17.0 in. (431 mm) W, 1.7 in. (43 mm) H
Weight: 5.5 lbs. (2.5 Kg) with full A/V module
Power (AC input/frequency): 100 - 240 VAC / 50 - 60 Hz
Operating Temperature: 32°F (0°C) to 118.4°F (48°C)
Storage Temperature: -4°F (-20°C) to 140°F (60°C)
Humidity: 20% to 80% (Non-condensing)

RECEIVER MECHANICAL / POWER / ENVIRONMENTAL

Size: 7.54 in. (192 mm) D, 12.75 in. (323 mm) W, 1.7 in. (43 mm) H
Weight: 4.6 lbs. (2.01 Kg) with full A/V module
Power (AC input/frequency): 100 - 240 VAC / 50 - 60 Hz
Operating Temperature: 32°F (0°C) to 118.4°F (48°C)
Storage Temperature: -4°F (-20°C) to 140°F (60°C)
Humidity: 20% to 80% (Non-condensing)

TRANSMITTER / RECEIVER CONNECTIONS (FRONT)

IR Receiver: IR input
3.5 Mini: IR Blaster output, 38KHz +/- 1KHz ; the IR Blaster port supports enough drive current to handle 4 IR LEDs
SMA Connector (2): Antenna

TRANSMITTER / RECEIVER CONNECTIONS (REAR)

L1 (RJ-45): Ethernet 10/100 IEEE 802.3, used for local network control of device; **L2 (RJ-45):** Ethernet 10/100 IEEE 802.3, used for streaming media
RS-232 (Female): Serial control input (Tx, Rx, CTS, and DTS)
Power: IEC
Input Module: Input module slot
Radio: Protocol: IEEE 802.11a; UNII 1 (4 channels) band: 5.15-5.25 GHz, and UNII 3 (4 channels) band: 5.725-5.825 GHz

ANTENNAS

Two 2dB omni-directional (included) / 8dB directional antennas (optional)

TRANSMITTER HDMI INPUT MODULE CONNECTIONS

RCA Female (2): Unbalanced audio input
HDMI: Digital audio/video control

TRANSMITTER HDMI INPUT MODULE (CONTINUED)

VIDEO

HDMI A/V Module: A/V input port supports 720 x 480p, 720p, 800 x 600 at 60 Hz, 640 x 480 at 60 Hz, and 1024 x 768 at 60 Hz

AUDIO

Line Audio Inputs: Less than or equal to 10K Ohm with 0-36dB of headroom (Sensitivity)

Frequency Response: The analog audio frequency response: 20 Hz - 20 KHz with a 3dB per octave roll-off beginning at 14 KHz

RECEIVER HDMI OUTPUT MODULE

CONNECTIONS

HDMI: Digital audio/video control

VIDEO

Video Gain: Unity ±1DB

HDMI A/V Module: A/V input port supports 720 x 480p, 720p, 800 x 600 at 60 Hz, 640 x 480 at 60 Hz, and 1024 x 768 at 60 Hz

AUDIO

Audio Gain: Unity

Line Audio Outputs: 600 Ohm with internal resistance of 150 Ohm

Frequency Response: The analog audio frequency response: 20 Hz - 20 KHz with a 3dB per octave roll-off beginning at 14 KHz

PERFORMANCE

Distance: 3000 ft (914 m) over standard 10/100 Ethernet; 150 ft (45 m) wirelessly through walls; up to 1000 ft (304 m) line-of-sight with optional directional antenna

PART NUMBERS

MPX1000T (Transmitter)

MPX1000R (Receiver)

MPX1000MT-HDMI (HDMI module)

MPX1000MR-HDMI (HDMI module)

MPX1000MT-HD15 (VGA module)

MPX1000MR-HD15 (VGA module)

RMK-56 (Table/desk mount bracket)

HGA51G-DIR30 (Optional directional antenna)

Accessories

DVI-HDMI (Adapter)

IRB-100 (IR blaster)

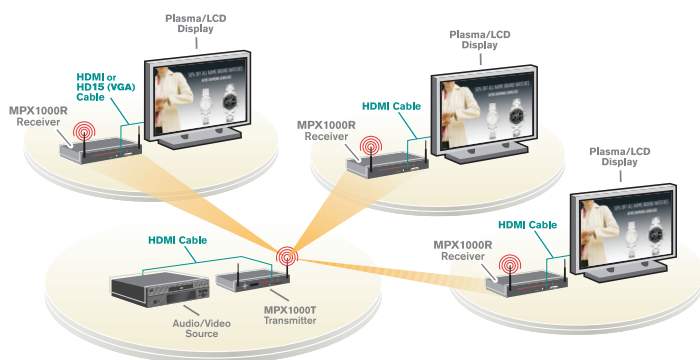
HDMI-1M (Cable)

STANDARDS

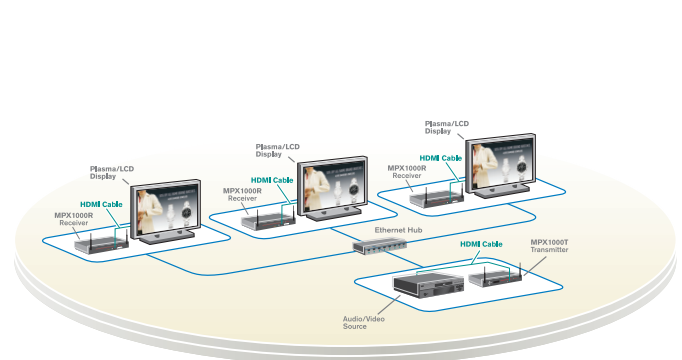
Approvals: FCC Class B, UL, cUL, RoHS, CE, ICES-003, WEEE

WARRANTY

Two years



Wireless HDMI or VGA Installation



Wired Ethernet Installation



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