



Avocent Professional A/V Extension Solutions

Emerge™ MPX1000 HD Multipoint Extender

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 completely 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 four frames total system latency from input at transmitter to output at receiver, making the EmERGE MPX1000 suitable for live presentations or recorded media.
- **Web Control Interface.** Allows remote control and configuration of the system without special software tools.
- **Serial Interface.** Allows integration with third party control systems.
- **Interchangeable Antennas.** Directional (optional) and omni-directional (standard) antennas are available to meet application distance requirements.
- **AES 128 Bit Encryption.** Built-in Advanced Encryption Standard (AES) for secure wireless connectivity.

High-definition audio and video extension

The Avocent EmERGE MPX1000 HD multipoint extender provides wired or wireless connectivity for moving high-definition content from one 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 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 composite video, component video, computer graphics; or digital HDMI/DVI signals.

For system control and configuration, the EmERGE MPX1000 extender provides two primary user interfaces: an intuitive menu system that lets you access multiple web pages and a front panel display to control and configure the system. The extender also allows for several methods to control external audio-visual equipment through RS-232 serial and infrared connections. The EmERGE MPX1000 extender is field upgradable to support future functionality.



MPX1000T with HDMI Media Module



MPX1000R with HDMI Media Module

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

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.

EMERGE™ MPX1000 HD MULTIPOINT EXTENDER SPECIFICATIONS

TRANSMITTER MECHANICAL / POWER / ENVIRONMENTAL

Size: 7.54" (192 mm) D, 17.0" (431 mm) W, 1.7" (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 104°F (40°C)
Storage Temperature: -4°F (-20°C) to 120°F (48°C)
Humidity: 20% to 80% (Non-condensing)

RECEIVER MECHANICAL / POWER / ENVIRONMENTAL

Size: 7.54" (192 mm) D, 12.75" (323 mm) W, 1.7" (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 104°F (40°C)
Storage Temperature: -4°F (-20°C) to 120°F (48°C)
Humidity: 20% to 80% (Non-condensing)

TRANSMITTER / RECEIVER CONNECTIONS (FRONT)

IR Receiver: IR input
3.5 Mini: IR Blaster output; the IR Blaster port supports enough drive current to handle 4 IR LEDs
SMA Connector (2): Antenna
Proprietary: Zigbee module slot

TRANSMITTER / RECEIVER CONNECTIONS (REAR)

RJ-45: Ethernet 10/100 IEEE 802.3
RS-232 (Female): Serial control input
Power: IEC
Input Module: Input module slot

ANTENNAS

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

STANDARDS

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

TRANSMITTER HDMI INPUT / OUTPUT MODULE CONNECTIONS

5-Pin Molex: Balanced line level audio in (input module) / line level audio out (output module)

RCA Female (2): Unbalanced audio input (input module)

HDMI: Digital audio/video control

VIDEO

HDMI or HD15 A/V Module: HDMI or HD15 inputs support resolutions at and below 1920 x 1080i at 60 Hz, specifically the following resolutions: 480i, 480p, 720p, 1080i, 1024 x 768 at 60 Hz, 800 x 600 at 60 Hz, 640 x 480 at 60 Hz

AUDIO

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

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: 3,000 ft (914 m) over standard 10/100 Ethernet; 150 ft (45 m) wirelessly through walls; up to 1,000 ft (304 m) line-of-sight with optional directional antenna

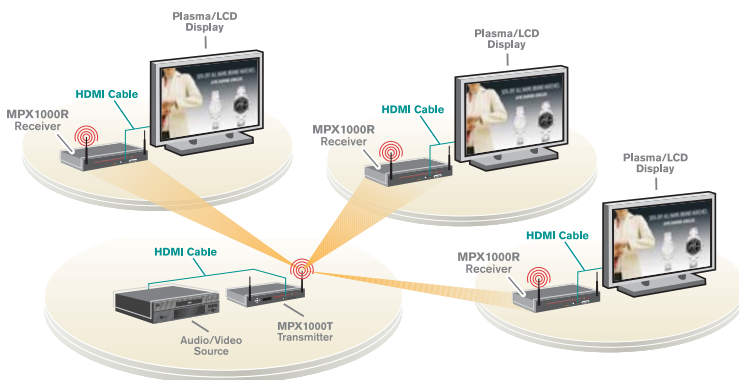
PART NUMBERS

MPX1000T (Transmitter)
MPX1000R (Receiver)
MPX1000MT-HDMI (Transmitter Module HDMI)
MPX1000MT-HD15 (Transmitter Module VGA)
MPX1000MR-HDMI (Receiver Module HDMI)
MPX1000MR-HD15 (Receiver Module VGA)
UNI-8DB (Optional Directional Antenna)

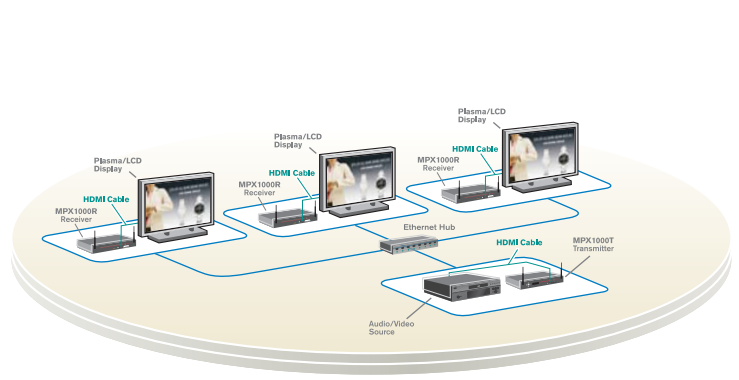
WARRANTY

Two years

The Emerge MPX1000 HD multipoint extender provides connectivity for moving high-definition content from one source to multiple destinations incorporating HDMI technology. High resolution computer graphics up to 1280 x 768, HD video including 720p and 1080i, stereo audio, and control data are wirelessly transmitted to as many as eight wireless or wired receivers.



Wireless HDMI Installation



Wired Ethernet Installation



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