The Avocent® HMX 5000 Series

Features

- **USB 2.0 with Class Control**

  Enables connection of USB devices from mice and keyboards through to graphics tablets, jog shuttles, joysticks and 3D explorers, alongside mass storage devices.

- **Redundant Network Operation**

  The units are able to detect whether the network is in operation and can automatically change to its second network port if it detects a failure.

- **Plug and Play**

  These devices are delivered in a zero config state so you can plug them in and start working on them straight away. There is no need for drivers or software to be installed. the additional configuration.

- **Ideal for Control Rooms**
  - Plug and play
  - 100m extension distance on single CATx; unlimited using standard IP network
  - 500m to 10km over fiber
  - Single link or single head configuration
  - 1920 x 1200 @ 60Hz maximum resolution
  - USB mass storage supported plus keyboard, mouse tablet and touch
  - Screen mass storage
  - Redundant network operation

The Avocent® HMX 5000 Series is a high performance KVM (Keyboard, Video and Mouse) extender that forms part of the matrix solution. This enables you to locate your critical computing hardware in a secure and temperature controlled environment away from the user work station, while maintaining a pixel perfect desktop experience.

Truly unlimited extension distances

Extension distance is not limited to a single 100 meter cable length - If you need to extend further, simply add a 1GbE network device to achieve even greater distances. The units are also fitted with SFP cages to accept fiber optic transceivers which enable much greater extension distances.

Single CATx cable or fiber that prevents interference

This significant asset is what gives you the freedom to use the full variety of cable links that you typically find within an average structured cabling system. The result is that you can achieve reliable links, regardless of whether the cables are CAT5e, CAT6 or CAT7.

Real time control with perfect digital video

Using a spatially-lossless encoding system, with 1:1 pixel mapping. The digital video you receive is the same as the digital video leaving the remote computer.

Security

For applications where security is of high importance, the system has the ability to disable the use of non-HID devices, meaning there is no need to physically block USB ports to prevent the use of mass storage devices.



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Technical Specifications

Hardware Compatibility
All computers with DVI-D, USB, Audio, RS232 - requirement dependent.

DVI-D - Digital Visual Interface (digital only)
The system supports a Single Link DVI-D resolution to a maximum of 1920 x 1200 @ 60Hz (VGA with adapter).

USB 2.0 with Class Control
Supports USB 2.0 devices (low, full and high speed). Security feature allows the blocking of non HID devices. Isochronous devices are not supported (e.g. USB audio or video devices).

Digital Stereo Audio
The system transfers analog stereo audio (Line In/Line Out) via digital signaling between any transmitter/ receiver pair. Additionally, the audio output of any transmitter can be multicast to many receivers.

RS232
RS232 can be passed between the units to a maximum baud rate of 115,200. RS232 is a point to point connection technology and cannot be multicast.

Software Compatibility
All known operating systems.

Computer Connections Transmitter (TX)
1 or 2 x DVI-D, audio 3.5mm in, audio 3.5mm out, USB type B, RS232 9-pin D-type 1 x RJ45 and 1 x SFP

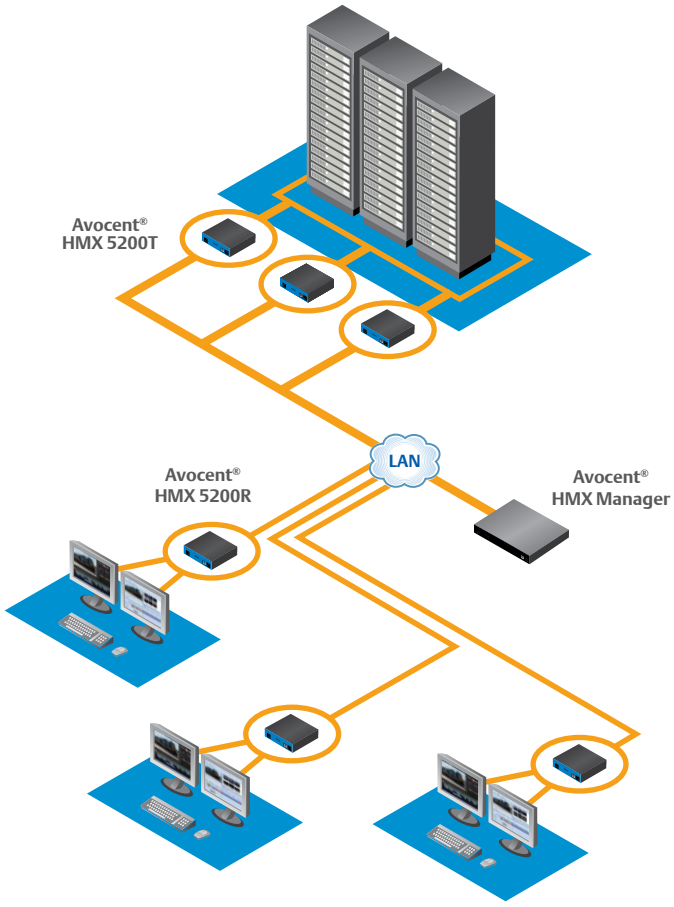
Peripheral Connections Receiver (RX)
1 or 2 x DVI-D, audio 3.5mm in, audio 3.5mm out, 4 x USB type A, RS232 9-pin D-type 1 x RJ45 and 1 x SFP

Physical Design
1U compact case, robust metal construction. 198mm/7.92" (w), 44mm/1.76" (h), 150mm/6.0" (d), 1.1kg/2.7lbs.

Power
2.5mm DC jack (power adapter included),100-240VAC 50/60Hz, 0.8A, input to power adapter. 5VDC 20W output from power adapter.

Operating Temperature
0 to 40ºC / 32 to 104ºF.

Approvals
CE, FCC.



Ordering Details

PART NUMBER	DESCRIPTION
HMX5100T	HMX TX single DVI-D, USB, audio, SFP
HMX5100R	HMX RX single DVI-D, USB, audio, SFP
HMX5200T	HMX TX dual DVI-D, USB, audio, SFP
HMX5200R	HMX RX dual DVI-D, USB, audio, SFP
PSC0005	Power Supply HMX 5000/6000 TX/RX
LC-MM-SFP	SFP Multi Mode Fibre Module LC
LC-SM-SFP	SFP Multi Single Fibre Module LC
RJ45-CATX-SFP	1000BASE-T Copper SFP Transceiver
RMK-81	19in Rackmount kit for 2 HMX 5000/6000
RMK-82	19in Rackmount kit for 1 HMX 5000/6000
RMK-83	19in VESA mount kit for 1 HMX 5000/6000

Emerson Network Power – Global Headquarters
1050 Dearborn Drive
P.O. Box 29186
Columbus, Ohio 43229

800 877 9222 Phone (U.S. & Canada Only)
614 888 0246 Phone (Outside U.S.)
Contact@EmersonNetworkPower.com

EmersonNetworkPower.com

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