Vertiv™ Avocent® HMX 6500R

Improve IT Management with a Single KVM Switching Solution for All Your Physical and Virtual Machines

Provide Seamless Access to Your Physical-Virtual Environment

Digital media businesses are among the most demanding, as staff often work under pressure to support live broadcasts, transmit massive amounts of imagery over fiber connections in control rooms, and deliver an exceptional customer experience at all time. Technical directors and their teams switch swiftly between physical and virtual machines to enable live news and sports broadcasts, access pre-recorded segments, and respond to fast-paced industry developments. Meanwhile, post-production staff need to streamline work processes as they develop new media products.

Who Uses the HMX 6500R

Vertical Markets

- Control Rooms
  - Airport
  - Government Agencies
  - 911 Centers
  - Broadcast
  - TV
  - Radio
- Sports Venues
  - Arenas
  - Stadiums
- Media Post-Production

Job titles

- Control Room Manager
- NOC Manager
- IT Managers
- Chief Engineers

Users who work in:

- Control rooms
- Classroom settings
- Airports

With IP technology eliminating distance limitations, staff can be anywhere. However, they need fast, seamless switching among physical and virtual machines so that they can deliver high-resolution imagery with zero latency. The Avocent® HMX 6500R (HMX 6500R) KVM switching solution enables your team to access both physical and virtual machines from their workstation, using one seamless interface, providing your business with greater flexibility.

The High Performance KVM Switching Solution Reduces the Complexity of Infrastructure Management

Introducing the Vertiv Avocent HMX 6500R KVM Switching Solution

The HMX 6500R KVM system provides seamless access and control to computers over distance, without any compromise to video and mouse performance. It empowers users to gain rapid access to critical machines from any location, save time with full file transfer speeds, and view high-quality video without distance limitations. These qualities make the HMX 6500R ideal for remote access, mission-critical control room, and media use cases.

Here's how the HMX 6500R benefits your business:

Support remote and distributed working models: Team members can access machines directly from their individual workstations, wherever they are. Empower your IT team to work remotely, driving their productivity while increasing your company's business continuity.

Provide real-time access to your infrastructure: Add the HMX 6500R to your existing Avocent® Matrix to enable real-time KVM and virtual machine access, while retaining the full security, reliability, and flexibility benefits of traditional KVM-over-IP solutions.

Support demanding applications:
Save time with full-file transfer speeds and view high-quality video without distance limitations. These qualities make the HMX 6500R ideal for remote access, mission-critical control room, and media use cases.

Enable secure access to hybrid cloud environments:
The HMX 6500R is a closed and hardened KVM system that only enables virtual machine access by authorized IT staff. Computers can be kept in a clean, conditioned, and highly secure environment, protecting them from unauthorized access attempts and potentially extending their lifecycles due to less physical use. Software cannot be loaded onto the units without administrator approval.

Increase security of virtual machines and sessions:
Seamlessly and securely integrate virtual machine access into your existing infrastructure. Use the Avocent Advance Manager to clearly define user access rights, ensuring that target PCs and virtual sessions can only be accessed by authorized users.

Streamline management: Use a single human-machine interface (HMI) to manage both physical and virtual machines, switching instantly between them. With virtual desktop infrastructure (VDI) protocols incorporated into the receiver, users can access machines more efficiently, without the need to purchase new hardware and add a new transmitter for every virtual session.

Increase efficiency: Seamless switching makes your team more efficient and effective. It also provides better ergonomics, protecting staff from issues such as repetitive motion injury.

Scale with growth: The HMX 6500R supports an unlimited number of machines and can easily integrate new virtual machines, without creating disruption, downtime, or costly replacement fees. Gain greater business flexibility that helps power your growth, while optimizing costs by avoiding unnecessary licensing fees and software.

Increase Business Flexibility

Access the technology platforms you want on-premises or virtually, increasing your flexibility. Empower your teams with a seamless KVM switching solution that enables access to all your physical and virtual machines. Adopt a true future-proof solution that will scale with your business growth.

HMX 6500R Features

- Available for use in either a single or dual-head situation
- Supports resolutions up to 2560x1600
- Provides unlimited access to virtual and physical machines with proper licensing
- High-resolution quality over 1Gb ethernet links
- USB 2.0 with fast switching
- Backwards compatibility with existing Avocent existing high performance offerings

Technical Specifications

Operating/storage conditions

Operating temperature	0 to 40ºC / 32 to 104ºF
Storage temperature	0 to 60ºC / 32 to 140 ºF
Storage and operating relative humidity	10-90% non-condensing
Altitude	< 2000m

Power

External power	12VDC, 5A
Typical power consumption	20W
BTU	68.24BTU/hr

Physical

Dimensions	(L)210mm /8.3” x (W)215mm/8.5” x (D)40mm/1.6”
Weight	1.8kg /4 lbs
Materials	Aluminum and steel construction

Connectors

Remote Unit	Receiver (RX)
Desk	2x DisplayPort, 5x USB type A, 2x 3.5mm audio jack sockets, 1x 3.5mm SPDIF socket
Ethernet	1x 8p8c (RJ45), 2x SFP+ cages
Power	3 pin Kycon socket

Specifications

USB	4 ports of USB2.0 with USB True Emulation to support keyboard, mouse and touch
Video	Supports 1 x 2560 x 1600 up to maximum refresh rates to 60Hz or 2x 1920 x 1200. Backward compatible with HMX 5000/6000 series Tx's
Audio	Analog Line in/out 2 channel 16bit 48KHz 1V RMS in / 1V RMS out
Ethernet	1 GbE (No 10/100/1000 support)
Packing Box Dimensions	(L) 285mm /11.2-inch (W) 245mm/9.6inch (D) 145mm/5.7inch Weight: 2.5kg / 5.5lbs.
Approvals / Compliance	CE and FCC: See the compliance web page for the full list