4K 18Gbps HDMI Video Matrix Switch, 16x16, 1RU

VEEMUX®

Route Ultra-HD 4Kx2K 60Hz 4:4:4 18Gbps HDMI video and audio signals from 16 video sources to 16 displays.

- Configure and control the switch through front panel buttons, Ethernet, RS232, or optional IR remote control.
- Supports resolutions up to Ultra-HD 4Kx2K (3840x2160 and 4096x2160 @24/30/60Hz YUV 4:4:4).
- Each input can be independently connected to any or all outputs.
- HDCP 2.2 and 1.4 compliant.
- HDMI features supported:
 - HDMI 2.0
 - Dolby TrueHD, DTS-HD Master Audio, Dolby Digital, DTS 7.1 and LPCM audio passthrough
 - YUV 4:4:4, 4:2:2, and 4:2:0
 - 12-bit Deep Color
 - HDR
 - 3D
 - Bandwidth up to 600 Mhz (18 Gbps)
- EDID learning for the support of any HDMI display device.
- Selectable built-in EDID table.
- Compact 1RU design
- Cable management tray included.



VEEMUX® SM-16X16-HD4K (Front & Back)

The VEEMUX® 16x16 4K HDMI Video Matrix Switch routes digital 4Kx2K HDMI video and audio signals from 16 HDMI video sources (computers, Blu-Ray players, satellite receivers, etc) to 16 displays (monitors, 4K TV's, projectors, etc).

- Resolutions to Ultra-HD 4Kx2K 60Hz 4:4:4
- 18Gbps bandwidth
- HDMI 2.0, HDCP 2.2
- IR, RS232, Ethernet control
- 16x16 in compact, 1RU case

Specifications

Video Input

- 16 female HDMI input connectors.
- Compatible with computers and UHD video sources (satellite receivers, Blu-Ray players, etc) with HDMI video.
- Supports HDCP 2.2/1.4
- Multiplatform support: Windows 2000/XP/Vista/7/8/10, Windows Server 2000/2003/2008/2012/2016, Solaris, Linux, FreeBSD, and MAC OS 9/10.

Video Output

- 16 female HDMI output connectors.
- Supports resolutions up to Ultra-HD 4Kx2K (3840x2160 and 4096x2160 @24/30/60Hz YUV 4:4:4).
- Supports HDCP 2.2/1.4
- Max data rate: 18Gbps

Protocols

- HTTP, HTTPS
- TCP/IP, DHCP, UDP, ARP, TLS v1.2
- IPV4

Power

- Input: 100 to 240 VAC at 50 or 60 Hz via IEC connector. (Country-specific power supply cable included.)
- Power consumption: 150W max

Environmental

- Operating temperature: 32 to 104°F (0 to 40°C).
- Storage temperature: -20 to 140°F (-30 to 60°C).
- Operating and Storage Relative Humidity: 17 to 90% non-condensing RH.

Warranty

Two years

Dimensions

- WxDxH (in):
 - Without cable management tray: 19x14.56x1.75 in (483x370x44 mm).
 - With cable management tray: 19x18.36x1.75 in (483x466x44 mm).

Regulatory Approvals

- CE, RoHS
- TAA compliant

Cables

- Interface cables between the video sources/displays and the switch are required for proper operation.
 - Supports cable lengths to 20 feet for 4Kx2K resolutions at 60Hz and lengths to 50 feet for 1080p at 60Hz using passive HDMI cables.
 - Cables longer than 50 feet can be used provided they have a built-in video equalizer (also known as "active HDMI cables").
- Use HD-xx-MM HDMI cables to connect an HDMI source or display.
 - HD-3/6/10/15/20-MM supports resolutions to 4K@60Hz.
 - HD-30/50/75/100-MM supports resolutions to 1080p@60Hz.
 - HD-75/100-MM have a built-in digital video equalizer for extending HD signals up to 1080p at 60Hz. These cables are directional, with one plug end marked for the display.
- Use HD-ACT-xx-MM 4K HDMI Active Cables to connect an HDMI source or display up to 100 feet.
 - HD-ACT-20/25/30/40/50/60-MM supports resolutions to 4K@60Hz (18 Ghps)
 - HD-ACT-75/100-MM supports resolutions to 4K@30Hz (10.2 Gbps).
- Use DP-HD-xx-MM cables to connect a DisplayPort source up to 15 feet away from the switch.
 - Supports resolutions up to 4k@30hz 4:4:4 and 4K@60Hz 4:2:0.
- Cables not included.

Compatible NTI Products

- Combine NTI's extenders, switches, splitters and cables for complex applications
 - 4K HDMI Extender via One CATx (ST-C64K-300)
 - Supports resolutions up to 4k@30hz
 - 4K HDMI Active Optical Cable (HD4K18GB-FO-xxM-MM)
 - 4K@30Hz HDMI Active Cables with Built-In Signal Booster (HD-ACT-xx-MM)
 - DisplayPort to HDMI Interface Cables, Male to Male, 4K (DP-HD-xx-MM)
 - Supports resolutions up to 4k@30hz 4:4:4 and 4K@60Hz 4:2:0.



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Control Methods

Ethernet Control

- Standard control method.
- Configuration can be done over the Internet via Web server or Telnet.
- Female RJ45 connector.
- 10/100 BaseT Ethernet interface.

Web Server

- Security is ensured by password and user configurable timeout.
- Up to 25 users can access the web page at one time.
- The user can access the following pages:
 - Switch page: allows the user to connect any input to any output, save and recall up to ten connections.
- Administration pages: administrator can access pages for system configuration, network configuration, naming video inputs/outputs, scanning sequence, DDC options, changing password, and updating firmware.
- Standby Mode page: allows the user to quickly place the switch in standby mode.
- Support page: provides links to the product manual and firmware downloads webpage.
- Reboot page: allows the user to quickly reboot the switch.

Telnet

- Security is ensured by password.
- Up to 25 users can access the telnet connection at one time.
- Commands are similar to RS232 commands.
- The telnet server listens on ports 2000 and 2005.
- Port 2000 is for an operator telnet session.
- Port 2005 is intended for a software control type session using raw TCP communication.

Front Panel Interface

- Standard control method.
- Configuration and control can be done using the front panel buttons.
- Keypad allows selection of the input source to be routed to the desired outputs.

RS232 Control

- Standard control method.
- Configuration and control can be done through the serial port.
 - Female RJ45 connector.
- Control the switch using the NTI Switch Control Program with Graphical User Interface (GUI control) via RS232.

Infrared Remote Control (Optional)

- Optional control method.
 - IRT-UNV is sold separately.
- Standard control method
- Transmitter can be up to 30 feet (9.1 meters) away.
- Control up to 15 switches with one remote.
- Power: Two AAA batteries (included).

Configuration and Cable Illustration



