Low-Cost 4K HDMI Video Matrix Switch: 4x4, 8x8
VEEMUX®

Route Ultra-HD 4Kx2K 60Hz 4:4:4 HDMI video and audio signals from many video sources to multiple displays.

- Configure and control the switch through front panel buttons, Ethernet, IR remote control, or RS232.
- Supports Ultra-HD 4Kx2K resolutions (4096x2160 and 3840x2160 @24/30/60Hz YUV 4:4:4) and HDTV resolutions to 1080p.
- Each input can be independently connected to any or all outputs.
- HDCP 2.2 compliant.
- HDMI features supported:
  - HDMI 2.0
  - Dolby TrueHD, DTS-HD Master Audio, Dolby Digital, DTS 7.1 and LPCM
  - YUV 4:4:4
  - HDR
  - 3D
  - Bandwidth up to 600 Mhz (18 Gbps)
  - Lip Sync
- Switch audio independently of video from connected HDMI sources (e.g. source 1 and source 2 video are active while only source 3 audio is active).
  - HDMI-embedded audio switching (four-channel stereo mixing)
  - SPDIF digital audio out ports for each source.
- Configurable built-in EDID table
- Compact 1RU design
  - Mounting kit included

SM-8X8-4K18GB-LC (Front & Back)

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

- **Resolutions to Ultra-HD 4Kx2K 60Hz 4:4:4**
- **HDMI 2.0, HDCP 2.2**
- **IR, RS232, Ethernet control**

Specifications

Inputs
- 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

Outputs
- Female HDMI output connectors
- RCA jacks for SPDIF digital audio.
- HDMI-embedded audio switching (four-channel stereo mixing).
- Supported resolutions
  - 4Kx2K (4096x2160 and 3840x2160) @24Hz/30Hz/60Hz YUV 4:4:4
  - 480p @60Hz, 576p@50Hz, 720p@60Hz, 1080p @24/50/60Hz
- Supports HDCP 2.2/1.4
- Video bandwidth: 600MHz (18 Gbps)

Power
- Input: 100 to 240 VAC at 50 or 60 Hz via AC adapter (AC adapter included.)
- Output: 12VDC, 3.0A
- Power consumption:
  - SM-4X4-4K18GBA-LC: 13W
  - SM-8X8-4K18GB-LC: 19W

Environmental
- Operating temperature: -4 to 140°F (-20 to 60°C).
- Storage temperature: -40 to 158°F (-40 to 70°C.)

Dimensions
- WxDxH (in):
  - SM-4X4-4K18GBA-LC: 8.50x4.13x1.34 (216x105x34 mm).
  - SM-8X8-4K18GB-LC: 17.32x8.66x1.75 (440x220x44 mm).

Cables
- Use HD-xx-MM HDMI cables to connect an HDMI source or display.
  - SM-4X4-4K18GBA-LC: Supports cable lengths to 25 feet for 4Kx2K resolutions at 60Hz and lengths to 50 feet for 4Kx2K resolutions at 30Hz.
  - SM-8X8-4K18GB-LC: Supports cable lengths to 50 feet for 4Kx2K resolutions at 60Hz
- Cables not included.

Regulatory Approvals
- CE, FCC, RoHS

Warranty
- Two years

Package Includes
- One 4K HDMI Video Matrix Switch
- One power adapter
- One IR remote
- One IR extension cable
- Mounting kit
- CD with software and user manual

Compatible NTI Products
- Combine NTI's extenders, switches, splitters and cables for complex applications
  - 4K HDMI Extender via One CATx (ST-C64K-300)
    - Each output on the switch must be set to 3840x2160 @ 30Hz.

NETWORK TECHNOLOGIES INCORPORATED

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Control Methods

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.

Ethernet Control

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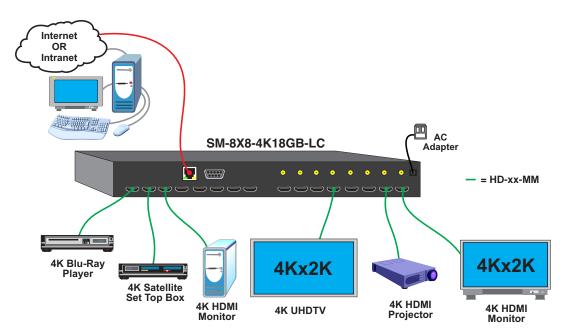- 10/100 BaseT Ethernet interface.

RS232 Control

- Standard control method
- Configuration and control can be done through the serial port.
  - SM-4X4-4K18GBA-LC: Screw Terminal
  - SM-8X8-4K18GB-LC: Female DB9 connector.
- Control the switch using the Control Program with Graphical User Interface (GUI control) via RS232. (Control software included.)

Infrared Remote Control

- Standard control method
- IR control of matrix switch:
  - The matrix switch can be controlled locally with the included IR remote using the built-in IR receiver on the switch.
  - Extend IR control up to 3.9 feet (1.2 meters) with IR extension cable (included).
    - One female 3.5mm port for IR extension.

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NTI Part #	HDMI Inputs	HDMI Outputs
SM-4X4-4K18GBA-LC	4	4
SM-8X8-4K18GB-LC	8	8

Configuration and Cable Illustration

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