

Low-Cost 4K 18Gbps 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
- Audio switching:
 - Audio switching follows video switching.
 - Supports analog audio embedding and HDMI audio de-embedding.
 - ♦ HDMI-embedded audio switching (four-channel stereo mixing)
 - ♦ Analog audio and SPDIF digital audio out ports for each source.
 - ♦ For example, if HDMI output 1 video is from HDMI input 3, then it will also receive audio from HDMI input 3. The analog audio output 1 and the SPDIF audio output 1 will receive audio from HDMI input 3 also.
- Configurable built-in EDID table.
- Compact desktop design for the 4x4 model and 1RU design for the 8x8.
 - Mounting kit included with the 8x8 model.



SM-4X4-4K18GBA-LCV2 (Front & Back)

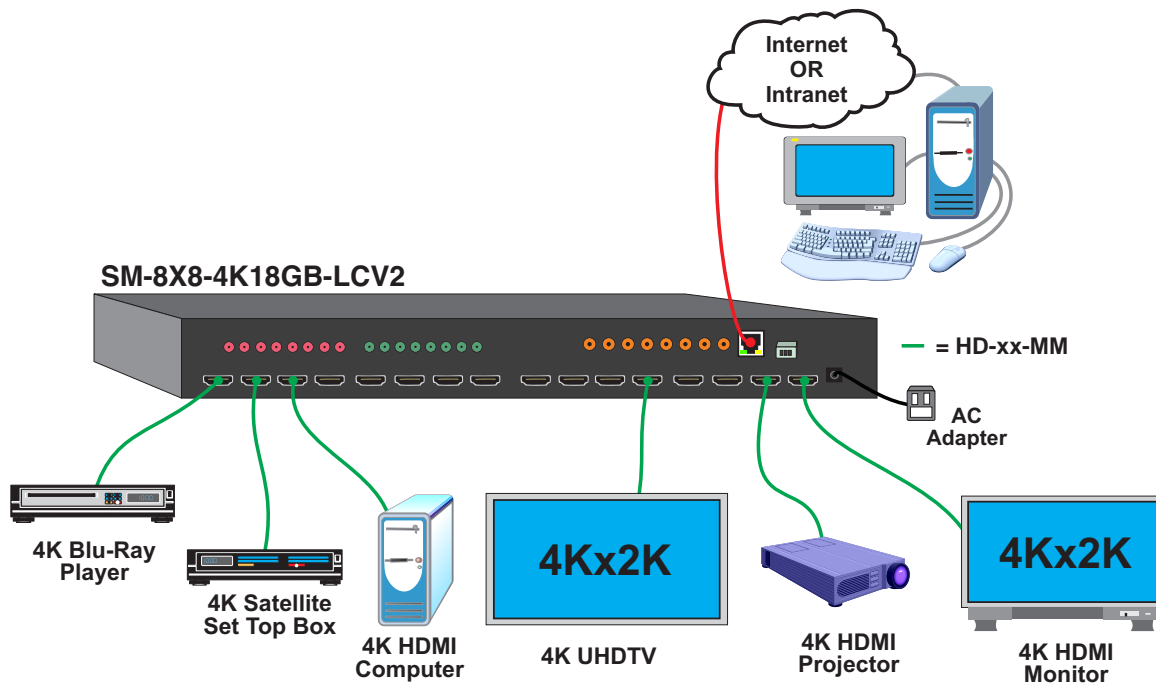


SM-8X8-4K18GB-LCV2 (Front & Back)

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**
- **18Gbps bandwidth**
- **HDMI 2.0, HDCP 2.2**
- **IR, RS232, Ethernet control, front panel buttons**

Configuration and Cable Illustration



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

Specifications

Inputs

- Female HDMI input connectors
- 3.5 mm stereo audio jacks (8x8 model only)
- 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.
- Screw terminals for analog stereo audio (4x4 model only)
- 3.5 mm stereo audio jacks (8x8 model only)
- 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 @24/50/60/120/144Hz
- Supports HDCP 2.2/1.4
- Video bandwidth: 600MHz (18 Gbps)

Power

- SM-4X4-4K18GBA-LCV2:
 - Input: 100 to 240 VAC at 50 or 60 Hz via AC adapter (AC adapter included.)
 - Output: 12VDC, 2.0A
 - Power consumption: 14W
- SM-8X8-4K18GB-LCV2
 - Input: 100 to 240 VAC at 50 or 60 Hz via AC adapter (AC adapter included.)
 - Output: 12VDC, 4.0A
 - Power consumption: 28W

Dimensions

- WxDxH (in):
 - SM-4X4-4K18GBA-LCV2: 8.51x5.06x1.34 (216x129x34 mm).
 - SM-8X8-4K18GB-LCV2: 17.25x8.63x1.75 (438x311x44 mm).

Regulatory Approvals

- CE, FCC, RoHS

Environmental

- SM-4X4-4K18GBA-LCV2:
 - Operating temperature: 32 to 104°F (0 to 40°C).
 - Storage temperature: 14 to 122°F (-10 to 50°C.)
 - Operating and storage relative humidity: 5 to 90% non-condensing RH.
- SM-8X8-4K18GB-LCV2
 - Operating temperature: 32 to 104°F (0 to 40°C).
 - Storage temperature: 14 to 140°F (-10 to 60°C.)

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.
- Use HD-xx-MM HDMI cables to connect an HDMI source or display.
 - HD-3/6/10/15-MM supports resolutions to 4K@60Hz.
 - HD-25/30/50-MM supports resolutions to 1080p@60Hz.
- Use DP-HD-xx-MM to connect a 4K@60Hz DisplayPort computer up to 15 feet.
- Use USB3C-HD4K-xx-MM to connect a 4K@60Hz computer with USB Type C connector up to 10 feet.
- Use DVI-HD-xx-MM cable to connect a DVI source.
 - Supports resolutions to 1080p.
- Cables not included.

Warranty

- Two years

Control Methods

Front Panel Interface

- 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

- Configuration and control can be done through the serial port.
- 3-pin screw terminal.
- Control the switch using the Control Program with Graphical User Interface (GUI control) via RS232. (Control software included.)

Ethernet Control

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

Infrared Remote Control

- 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.
- One female 3.5mm port for IR extension.
 - Extend IR control up to 3.9 feet (1.2 meters) with IR extension cable (included).