

Low-Cost 4K 18Gbps HDMI USB KVM Switch: 2- and 4-Port UNIMUX™

Control up to four Ultra-HD 4Kx2K 60Hz HDMI USB computers from one USB keyboard, USB mouse, and 4K HDMI monitor

- Supports Ultra-HD 4Kx2K resolutions to 3840x2160 and 4096x2160 @30/50/60Hz YUV 4:4:4, HDTV resolutions to 1080p @144Hz, and up to 1920x1200 (WUXGA).
- HDMI features supported:
 - HDMI 2.0
 - 8-bit, 10-bit, and 12-bit Deep Color
 - Dolby TrueHD, DTS-HD Master Audio, Dolby Digital, Dolby Digital+, Dolby Atmos, LPCM 2/5.1/7.1CH, DTS 5.1, and DTS:X
 - YUV 4:4:4, 4:2:2, 4:2:0, and RGB
 - Bandwidth up to 600 MHz (18Gbps)
 - 3D (1080p @60Hz)
 - HDR
- HDCP 2.2 compliant.
- Compatible with USB computers (PC and MAC) with HDMI outputs.
- Control the switch through the front panel buttons, keyboard commands, or RS232.
- Two transparent USB 2.0 ports (low/full/high speed), in addition to keyboard and mouse ports, for connecting USB devices such as printers, game controllers, USB flash drives, touch screen monitors, whiteboards, etc.
 - Supports high-speed (480 Mbps), full speed (12 Mbps), or low speed (1.5 Mbps) USB devices.
- Supports Plug-n-Play specification.
- No power supply required – powered from attached computers.
- Mounting brackets included for easy surface/wall mounting.

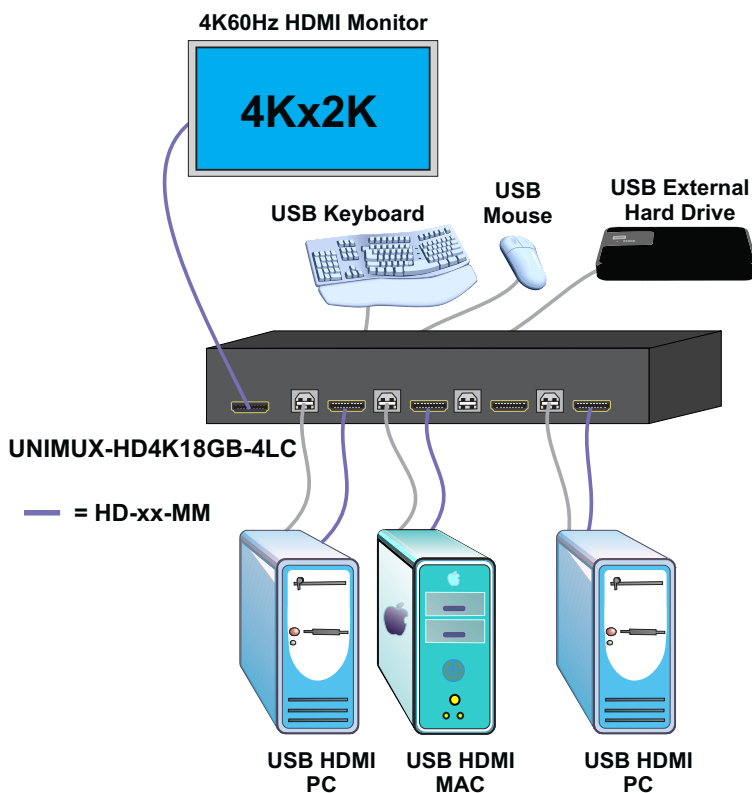


UNIMUX-HD4K18GB-4LC (Front & Back)

- Resolutions to Ultra-HD 4Kx2K 60Hz 4:4:4
- 18 Gbps
- HDMI 2.0, USB 2.0
- No power supply required

The UNIMUX™ 4K 18Gbps HDMI USB KVM Switch allows a user to control up to four HDMI 2.0 Ultra-HD 4Kx2K 60Hz 4:4:4 USB computers with one USB keyboard, USB mouse, and 4K HDMI monitor.

Configuration and Cable Illustration



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Specifications

Hosts

- Female HDMI-A connectors.
- Female USB Type B connectors.
- Supports USB-enabled computers (PC and MAC) with HDMI video.
- Multiplatform support: Windows 7/10/11, Windows Server 2008/2012/2016/2019/2022, Linux, and MAC OS 10/11/12/13.
- Compliant with HDMI 2.0 and HDCP 2.2 standards.

Monitor

- Supports Ultra-HD 4Kx2K resolutions to 3840x2160 and 4096x2160 @30/50/60Hz YUV 4:4:4, HDTV resolutions to 1080p @144Hz, and up to 1920x1200 (WUXGA).
- One female HDMI-A connector.
- Compliant with HDMI 2.0 and HDCP 2.2 standards.

Devices

- Two female USB 1.1 Type A connectors for keyboard and mouse.
 - Supports full-speed (12 Mbps) or low-speed (1.5 Mbps) USB keyboard and mouse.
 - Keyboard and mouse are hot-pluggable.
- Two transparent female USB 2.0 Type A connectors for additional USB devices.
 - Supports high-speed (480 Mbps), full-speed (12 Mbps) and low-speed (1.5 Mbps) USB devices including, but not limited to, touchscreen monitors, CAC card readers, printers, scanners, and thumb drives.

Power

- Powered from attached computers.
- Power consumption: 6W (max)
- The combined current consumption of the connected USB devices cannot exceed 1.0A.

Dimensions

- 2-Port WxDxH: 5.71x2.69x0.89 in (145x68x22 mm)
- 4-Port WxDxH: 9.09x2.71x0.89 in (231x69x23 mm)

Environmental

- Operating temperature: 23 to 158°F (-5 to 70°C).
- Operating relative humidity: 5 to 90% non-condensing RH.

Regulatory Approval

- CE, FCC, RoHS

Warranty

- Two years

Cables

- Interface cables between the computers/monitor and the switch are required for proper operation.
 - Supports cable lengths to 15 feet for 4Kx2K resolutions and 50 feet for 1080p.
 - Longer cables can be used provided they have a built-in video equalizer (also known as “active HDMI cables”).
- Use HD-xx-MM cable to connect an HDMI source/display (not included).
- Use HD-ACT-xx-MM 4K HDMI Active Cables to connect an HDMI source or display up to 100 feet (not included).
 - HD-ACT-20/25/30/40/50/60-MM supports resolutions to 4K@60Hz.
 - HD-ACT-75/100-MM supports resolutions to 4K@30Hz.
- Use DP-HD-xx-MM cables to connect a DisplayPort computer up to 15 feet away from the switch (not included).
 - Supports resolutions up to 4k@30hz 4:4:4 and 4K@60Hz 4:2:0.
- Use USB3C-HD4K-xx-MM to connect a 4K@60Hz computer with USB Type C connector up to 10 feet (not included).
- Use DVI-HD-xM-MM to connect a DVI computer up to 5 meters (not included).
 - Supports resolutions to 1080p.
- 4.17 ft (1.27m) male USB Type A to male USB Type B interface cables included for use between the computers and switch.
 - Two included with 2-port and four included with 4-port switch.

Control Methods

Front Panel Interface

- Press the buttons on the front panel interface to switch between ports.
- LEDs indicate currently selected port.

Keyboard

- Scan or Auto Switching Modes are available from the keyboard.
- Use the keyboard to command the switch box to select ports or configure the SCAN delay.

RS232

- Configuration and control can be done via RS232.
 - 3-pin screw terminal.
- Baud rate: 115200 bps.

Low-Cost 4K 18Gbps HDMI USB KVM Switches

NTI Part #	# of CPU's	Size WxDxH (in)
UNIMUX-HD4K18GB-2LC	2	5.71x2.74x0.89
UNIMUX-HD4K18GB-4LC	4	9.09x2.74x0.89