4K HDMI USB KVM Switch: 4-, 8-, 16-, 24- and 32-Port
UNIMUX™

Control up to 32 Ultra-HD 4Kx2K 30Hz HDMI USB computers from one USB keyboard, USB mouse and 4K HDMI monitor

- Supports Ultra-HD 4Kx2K resolutions to 3840x2160 (30Hz), 2K resolution 2048x1080 (60Hz) and HDTV resolutions to 1080p (60Hz).
- Features NTI's patented true autoboot USB switching – all attached computers can be booted simultaneously.
- Compatible with USB computers (PC, SUN and MAC) with HDMI outputs.
  - Use DVI-HD-xM-MM cables to connect a DVI computer.
- Control the switch through the front panel buttons, keyboard commands, OSD, 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.
- High quality steel construction.
- Flash upgradeable.
- Rackmount kit included.

Designed and Manufactured in the USA

UNIMUX-HD4K-4 (Front & Back)

The UNIMUX™ HDMI USB KVM Switch allows a user to control up to 32 Ultra-HD 4Kx2K 30Hz USB computers with one USB keyboard, USB mouse and 4K HDMI monitor. Dedicated internal microprocessors emulate keyboard and mouse presence to each attached CPU 100% of the time so all computers boot error-free.

Specifications

Hosts
- Female HDMI-A connectors.
- Female USB Type B connectors.
- Supports USB-enabled computers (PC, SUN, and MAC) with HDMI video.
- Multiplatform support: Windows 2000/XP/Vista/7/8/10, Windows Server 2000/2003/2008/2012/2016/2019, Solaris, Linux, FreeBSD, and MAC OS 9/10.
- Compliant with HDMI 1.4 and HDCP 1.4 standards.

Monitor
- Supports Ultra-HD 4Kx2K resolutions to 3840x2160 (30Hz), 2K resolution 2048x1080 (60Hz), and HDTV resolutions to 1080p (60Hz).
- One female HDMI-A connector.
- Compliant with HDMI 1.4 and HDCP 1.4 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.
  - Compatible with most USB keyboards and mice, including USB IntelliMouse®.
  - Keyboard and mouse are hot-pluggable.
  - Supports SUN and MAC extra keys.
- 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, touchscreens monitors, CAC card readers, printers, scanners, and thumb drives.

Power
- 110 or 220 VAC at 50 or 60 Hz via IEC connector.

Power Consumption			
Model	Power (W)	Model	Power (W)
UNIMUX-HD4K-4	5	UNIMUX-HD4K-24	15
UNIMUX-HD4K-8	5	UNIMUX-HD4K-32	20
UNIMUX-HD4K-16	10		

Dimensions
- UNIMUX-HD4K-4/8/16 WxDxH:
  - Without supplied rackmount kit: 15.32x6.82x1.75 in (389x173x44 mm)
  - With supplied rackmount kit: 19x6.82x1.75 in (483x173x44 mm)
- UNIMUX-HD4K-24/32 WxDxH:
  - Without supplied rackmount kit: 15.32x6.82x3.5 in (389x173x88 mm)
  - With supplied rackmount kit: 19x6.82x3.5 in (483x173x88 mm)

Cables
- Interface cables between your computers and the switch are required for proper operation. (Cables not included)
  - Use male-to-male HDMI cables (HD-xx-MM) and male USB Type A to male USB Type B cables (USB2-AB-0-5M-5T) to connect HDMI USB computers to the switch.
  - Use DVI-HD-xM-MM to connect a DVI computer or display (not included).
    - Supports resolutions to 1920x1200@60Hz and 2048x1080@60Hz.
- 5-foot (1.5-meter) CAT5e patch cable and RJ45F-DB9F adapter included for RS232 control.

Environmental
- Operating temperature: 32 to 100°F (0 to 38°C).
- Storage temperature: -22 to 140°F (-30 to 60°C).
- Operating and Storage Relative Humidity: 17 to 90% non-condensing RH.

Regulatory Approval
- CE, RoHS
- TAA compliant

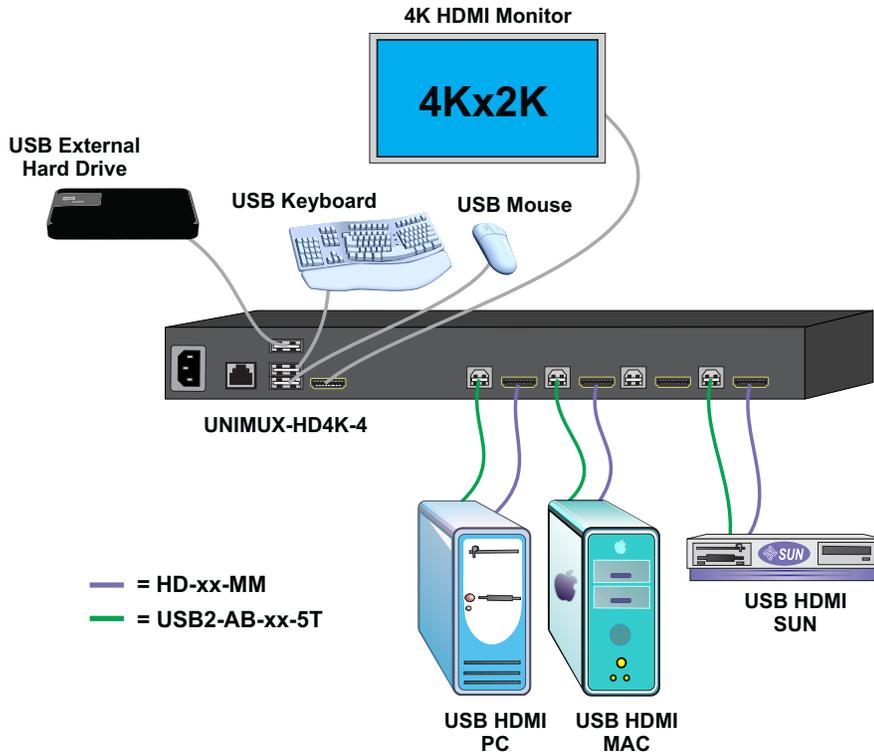### Warranty
- Two years

Compatible NTI Products
- Combine NTI's extenders, switches, splitters and cables for complex applications.
  - Ultra Low-Cost VGA + Audio to HDMI Converter Cable (VGAA-HD-ULC)
    - Use to connect VGA PC to switch.
    - VGAA-HD-ULC is not hot-pluggable – PC will need to be restarted.

NETWORK TECHNOLOGIES INCORPORATED

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Control up to 32 Ultra-HD 4Kx2K 30Hz HDMI USB computers from one USB keyboard, USB mouse and 4K HDMI monitor

Configuration and Cable Illustration

4K HDMI Monitor

4Kx2K

USB External Hard Drive

USB Keyboard

USB Mouse

UNIMUX-HD4K-4

— = HD-xx-MM

— = USB2-AB-xx-5T

USB HDMI PC

USB HDMI MAC

USB HDMI SUN

Control Methods

Front Panel Interface

- LEDs indicate currently selected port and mode of operation.
- Hold in any button for more than five seconds to go into Scan, Broadcast or Command Mode.
  - In Normal Operating Mode, the user can directly operate the selected computer with transparent presence of the NTI switch.
  - Scan Mode automatically and sequentially displays the video from each powered on computer for 5-255 seconds.
  - Broadcast Mode allows the user's keystrokes to be sent to all powered on computers. (Broadcast Mode is not available for MACs.)
  - Command Mode allows the user to give instructions to the switch through his/her keyboard. Keystrokes are not passed to the computer.

4K HDMI USB KVM Switch Models			
NTI Part#	# of CPUS	NTI Part#	# of CPUS
UNIMUX-HD4K-4	4	UNIMUX-HD4K-24	24
UNIMUX-HD4K-8	8	UNIMUX-HD4K-32	32
UNIMUX-HD4K-16	16		

RS232 Control

- Female RJ45 connector.
- Baud rate: 1200 to 115200.
- Commands
  - **CS** – connect output (user) port to specific input (CPU) port.
  - **CB** – change baud rate.
  - **RO** – reads what input is connected to the output.
  - **RU** – reads unit size.
  - **RV** – return firmware version.

On Screen Display (OSD)

- Select computers by name with the On Screen Display (OSD).
- Use keyboard or mouse to operate the switch from menus superimposed onto the monitor.
- Names can be up to 30 characters long.
- Help screen assists user with the OSD.
- OSD is built into the switch – no need to install additional hardware or software.
- OS and software-independent.

Keyboard

- Scan, Broadcast and Command Modes are available from the keyboard using hot keys.
- Use the keyboard to command the switch box to select ports or configure the Scan delay.
- Type <Ctrl>+<`> (or <Compose>+<`>) to go into Command Mode.
- Press <Esc> to leave Command Mode and return to Normal or Scan Mode.

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