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.
- Cable management tray included.

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.

### Hosts
- Female HDMI-A connectors.
- Female USB Type B connectors.
- Supports USB-enabled computers (PC, SUN, and MAC) with HDMI video.
- 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.

### Specifications

#### 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)
- Cable tray adds an additional 3” to the depth.

#### 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: 5 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.

#### Power Consumption

<table>
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<th>Model</th>
<th>Power (W)</th>
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Configuration and Cable Illustration

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.

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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