

HIGH DENSITY VGA USB KVM SWITCH

UNIMUX™

Control up to 32 USB computers with one USB keyboard, USB mouse & VGA monitor

- The High Density Switch saves rack space
- 4-, 8- and 16-port switches are 1RU in height.
- 32-port switch is 2RU in height.
- Rackmount kit included.
- Features NTI's patented true autoboot USB switching – all attached computers can be booted simultaneously.
- Compatible with USB computers (PC, SUN and MAC).
- Crisp and clear 1920x1200 (WUXGA) video resolution.
- Equipped with OSD, RS232, and Ethernet.
- High quality steel construction.
- Flash upgradeable.
- Cabling runs are simplified with NTI's high density KVM switch cables.
- Available options: additional two transparent USB ports, remote user, or remote user + one additional USB port.
 - Two transparent USB ports
 - ◆ Supports any two USB 1.1 (low/full speed) devices, in addition to keyboard and mouse, such as a touch screen monitor, interactive white board, or CAC card reader.
 - Remote user or remote user + one additional USB port
 - ◆ Optional extender port for locating a remote user up to 300 feet (91 meters) via CAT5/5e/6 cable.
 - ◆ Only one user can be active at a time.
 - ◆ Locked out user must wait five seconds after last keystroke or mouse movement from active user.
 - ◆ For switches with remote user and additional USB port option, the remote user does not have access to the extra USB device.
 - ◆ See specifications for a list of supported USB devices.



UNIMUX-USBV-16HDUT (Front & Back)

- **High Density Switch – 16 Ports in 1RU**

Available options:

- **Two transparent USB connectors for USB touch screen monitors, CAC card readers, interactive whiteboards, etc.**
- **Extender port for connecting a remote user up to 300 feet away**

The UNIMUX™ High Density VGA USB KVM Switch allows a user to control up to 32 USB computers with one USB keyboard, USB mouse and VGA 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 15-pin HD connectors.
- Supports USB computers with VGA video.
- Multiplatform support: Windows 2000/XP/Vista/7, Windows Server 2000/2003/2008, Solaris, Linux, FreeBSD, and MAC OS 9/10.
- Any legacy PS/2 or SUN computer can be connected by using a USB-PS2-R or USB-SUN-R.

Monitor

- Crisp and clear 1920x1200 resolution.
- One female 15-pin HD connector.
- A multiscan VGA monitor is required to display the different video outputs from different platforms.
- Bandwidth is 150 MHz.

Power

- 110 or 220 VAC at 50 or 60 Hz via IEC connector. (Country-specific power supply cable included.)
- Power Consumption
 - UNIMUX-USBV-16HDU: 15W

Environmental

- Operating temperature: 32°F to 100°F (0°C to 38°C)
- Storage temperature: -20°F to 140°F (-30°C to 60°C)
- Operating/storage relative humidity: 17 to 90% non-condensing RH.

Regulatory Approvals

- CE, RoHS
- TAA compliant

Devices

- Two female USB Type A connectors for keyboard and mouse.
 - Compatible with most USB keyboards and mice, including Microsoft USB Intellimouse®, Logitech Cordless Elite Duo keyboard/mouse, Gyration keyboard/mouse, Crystal Vision keyboard with touchpad, and IKEY combo keyboard/touchpad.
 - Keyboard and mouse are hot-pluggable.
- UNIMUX-USBV-xHDUT: two additional transparent female USB Type A connectors for USB 1.1 (low/full speed) devices – USB touch screen monitor, CAC card reader, interactive whiteboard, barcode scanner, etc.
 - Connect any type of USB device – fully transparent USB connectors.
 - Switch USB 1.1 devices between connected computers.
- UNIMUX-USBV-xHDUC5: one additional female USB Type A connector for an additional USB 1.1 (low/full speed) device - USB touch screen monitor, CAC card reader, or interactive whiteboard.
 - USB maximum data rate: 12 Mbps.
 - Supported touch screen monitors: Microtouch 3M, ELO 1529L 3000 Series, Smart Podium ID422w, Hope Industrial HIS-RL17, NEC MultiSync E222W, Industrial Electronic Devices Inc IWS-240t-G3, Zytronic CML-170, Pulse IR TSV4001/DT40, HP Compaq, Sharp Aquos Board, Advantech FPM-2150, Touch Screens Inc TWAP-1150ADP/1154ADP-USB and similar monitors that use PenMount 5000/6000/9000 driver.
 - Supported interactive whiteboards: SMART Board™ SB640
 - Supported card readers: Athena, Cherry, Gemalto, Generic USB, Dell smart card/keyboard combo, and SCM Microsystems.

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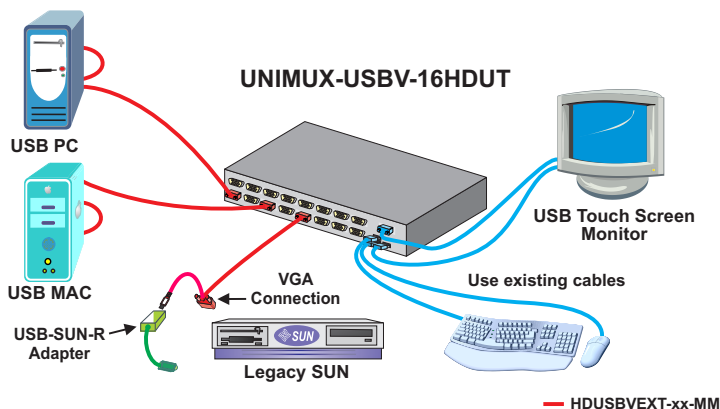
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Specifications (continued)

| MTBF | | | |
|-----------------|---------|------------------|---------|
| NTI Part # | Hours | NTI Part # | Hours |
| UNIMUX-USBV-4HD | 211,477 | UNIMUX-USBV-16HD | 133,913 |
| UNIMUX-USBV-8HD | 196,238 | UNIMUX-USBV-32HD | 87,413 |

Configuration and Cable Illustration



Control Methods

Front Panel Interface

- Touch a button and be connected to a computer or change modes of operation.
- LEDs indicate currently selected port and mode of operation.

RS232 Control

- Female RJ45 connector.
- Baud rate 1200 to 115200.
- Address up to 15 units, all of which can be daisy-chained and controlled by one serial port.

Commands

- CS – connects output with specific input.
- RO – reads what input is connected to output.
- RU – reads size of switch.

Ethernet Control

- Female RJ45 connector.
- 10/100 BaseT Ethernet interface.
- Supported protocol: Telnet.
- Control can be done over Telnet.

Telnet

- Commands are similar to RS232 commands.
- The telnet server listens on port 2005 (configurable).
 - Port 2005 is intended for a software control type session.

Keyboard

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

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.
- Shows names of computers on cascaded switches up to 1024 ports.
- Names can be up to 12 characters long.
- Power status of each computer is displayed.
- View usage statistics – power-on cycles and hours of usage.
- Help screens assist users with the OSD.
- Modify the size and position of the OSD.
- OSD is built into the switch – no need to install additional hardware or software.
- OS and software-independent.

Security

- Advanced security included.
- Each user password can be up to 15 characters long, and each switch can store up to 63 users.
- Administrator can enable or disable all security features and select which computers each user can access.
- Once security is enabled, a user or administrator must login in order to access any of the computers connected to the switch.

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Ordering Specifications

This example explains the NTI part by breaking it down into the available options. When ordering, choose the options that you require.

UNIMUX - ^{Universal Serial Bus Version} **USBV** - ^{Number of Ports} **x** ^{High Density} **HD** ^{Optional Transparent USB Ports} **UT** ^{Optional Extender Port} **C5** ^{Optional Extender Port + USB Port} **UC5**

| High Density VGA USB KVM Switch Models | | | | |
|--|---------------|---|------------|--|
| NTI Part # | # of CPUs (x) | Desktop Size WxDxH (in) | Rack Units | Rack Size WxDxH (in) |
| UNIMUX-USBV-4HD | 4 | 16.7x6.8x1.75 (without supplied rackmount kit) | 1RU | 19x6.8x1.75 (with supplied rackmount kit) |
| UNIMUX-USBV-8HD | 8 | 16.7x6.8x1.75 (without supplied rackmount kit) | 1RU | 19x6.8x1.75 (with supplied rackmount kit) |
| UNIMUX-USBV-16HD | 16 | 16.7x6.8x1.75 (without supplied rackmount kit) | 1RU | 19x6.8x1.75 (with supplied rackmount kit) |
| UNIMUX-USBV-32HD | 32 | N/A | 2RU | 19x10x3.5 |

Cables

- Interface cables between your computers and the switch are required for proper operation. Use HDUSBVEXT-xx-MM to connect computers to switch.
- Cables not included.