

# High Density VGA USB KVM Switch with Optional Additional Transparent USB Connectors

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:
  - 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.
  - USB only switches – no VGA video.



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.
- USB only switches – no VGA video

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/7/8/10, Windows Server 2000/2003/2008/2012, 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.)
- Available power cord lengths: 1/1.5/3/6 feet

### Dimensions

- 4-, 8- and 16-port switches WxDxH (in):
  - 16.66x7.58x1.75 (without supplied rackmount kit)
  - 19x7.58x1.75 (with supplied rackmount kit)
- 32-port switches WxDxH: 19x10.17x3.5 in (483x258x89 mm)

### 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.

### 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.

### Regulatory Approvals

- CE, RoHS
- TAA compliant

### Warranty

- Two years

### Compatible NTI Products

- Use NTI's KVM extenders for complex applications
  - Transparent USB Extender with VGA Video (ST-C5USBVT)

### Cables

- Interface cables between your computers and the switch are required for proper operation. (Cables not included)
  - Use HDUSBVEXT-xx-MM to connect computers to the switch.
    - ♦ Use USB male A to female A cables with HDUSBVEXT-xx-MM to extend USB beyond 15 feet.

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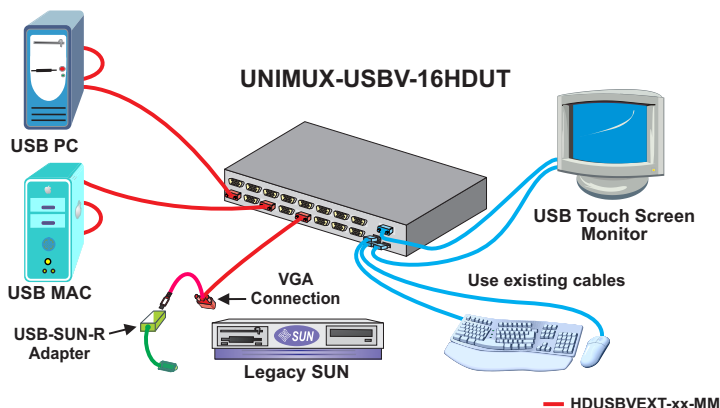
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## Specifications (continued)

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.

Universal Serial Bus Version      Number of Ports      High Density      Optional Transparent USB Ports  
**UNIMUX - USBV - X HD UT**

### 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.