

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 video resolution.
- Equipped with OSD, RS232, and Ethernet.
- High quality steel construction.
- Cascade UNIMUX switches off a single master switch to control up to 1,024 computers as if from one switch.
- Flash upgradeable.
- Cabling runs are simplified with NTI's high density KVM switch cables.
- Optional support for a USB 2.0 (low/full speed) device, in addition to keyboard and mouse, such as a USB touch screen monitor, interactive whiteboard, or CAC card reader.
- Optional extender port for locating a remote user up to 300 feet 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 the additional USB port option, the remote user does not have access to the extra USB device.

Available options:

- **USB connector for USB touch screen monitor, interactive whiteboard, or CAC reader**
- **Extender port for connecting a remote user 300 feet away via CAT5**



UNIMUX-USBV-16HDU (Front & Back)

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

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.

Devices

- Two female USB Type A connectors.
- Compatible with most USB keyboards and mice, including Microsoft USB Intellimouse®
- Keyboard and mouse are hot-pluggable.
- Available with an optional female USB Type A connector for an additional USB 2.0 (low/full speed) device – USB touch screen monitor, CAC card reader, interactive whiteboard, or barcode scanner.
 - 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, Zytronics CML-170, Pulse IR TSV4001/DT40 and HP Compaq.
 - Supported interactive whiteboards: SMART Board™ SB640
 - Supported card readers: Athena, Cherry, Gemalto, Generic USB, Dell smart card/keyboard combo, and SCM Microsystems.

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

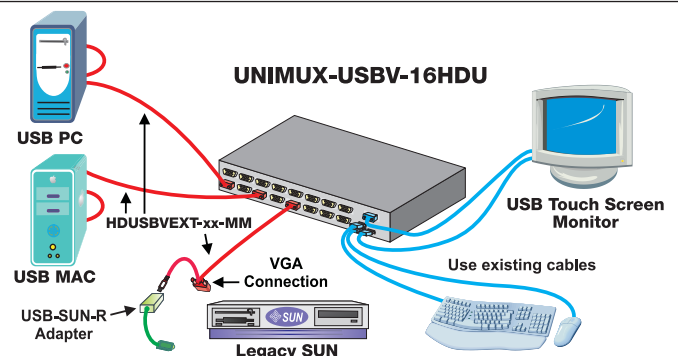
- Operating temperature: 32°F to 100°F (0°C to 38°C)
- Storage temperature: -20°F to 140°F (-30°C to 60°C)
- Operating/storage relative humidity: 17 to 90% non-condensing RH.

Regulatory Approvals

- CE, RoHS
- TAA compliant

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



HIGH DENSITY VGA USB KVM SWITCH

UNIMUX™

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

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.

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 USB Port}U ^{Optional Extender Port}C5

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

USB KVM Receiver (Remote Unit) For use with switch with extender port option

NTI Part #	Maximum Extension (ft.)	Dimensions WxDxH (in.)
ST-C5USBV-R-300	300	3.5x3.1x1.3

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.