High Density DVI USB KVM Switch: 4-, 8-, 16-, 24- and 32-Port
UNIMUX™

Control up to 32 single link DVI or HDMI USB computers with one USB keyboard, USB mouse & DVI monitor.

- The High Density Switch saves rack space
  - 4-, 8- and 16-port switches are 1RU in height.
  - 24- and 32-port switches are 2RU in height.
  - Rackmount kit included.
- Incorporates NTI's patented true autoboot USB switching; all attached USB PCs, SUNs and MACs can be booted simultaneously.
- Supports video resolutions up to 1920x1200.
- Supports digital DVI for crisp and clear video quality on flat panel display.
- Control the switch through the front panel interface, keyboard commands or RS232.
- Compliant with USB 2.0 (low/full speed) standards.
- High quality, rugged steel construction with durable powder coat finish.
- USB SUN start-up keys are supported.
- Supports MAC soft (keyboard) power-on.
- Cabling runs are simplified with NTI's high density KVM switch cables.
  - Use USB-HHEXT-xx-MM cables to connect HDMI computers to the switch.
  - Use USB-DHEXT-xx-MM cables to connect DVI computers to the switch.
- Available with optional stereo audio.

UNIMUX-DVI-16HD (Front & Back)

The UNIMUX™ High Density DVI USB KVM switch allows you to control up to 32 single link DVI or HDMI USB computers with one DVI-D monitor, USB keyboard and USB mouse.

Specifications

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

Monitor
- Supports crisp and clear video resolution up to 1920x1200.
- One female DVI-I connector.
- Single link DVI-D signal.
- DDC2B compatible.

Devices
- Two female USB Type A connectors.
- Provides support for 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.

Audio Option
- 3.5mm stereo audio jacks for inputs and output.
- Maximum input/output levels: 4Vp-p (line level).
- Input impedance: 10k Ohms.
- Output impedance: 32 Ohms.
- Signal-to-Noise Ratio (SNR): 87 dBA
- Frequency Response: 20 Hz to 20 kHz, ±0.5 dB.
- Total Harmonic Distortion + Noise: 0.02% at 1kHz.
- Requires powered speakers or headphones.
- CD quality audio output.

Power
- 110 or 220 VAC at 50 or 60 Hz via IEC connector.
- Power consumption: 10W

MTBF
- UNIMUX-DVI-4HD: 262,851 hrs
- UNIMUX-DVI-8HD: 217,508 hrs
- UNIMUX-DVI-16HD: 160,996 hrs

Dimensions
- 4-, 8-, 16-port switches WxDxH:
  - 15.2x6x1.75 in (386x152x45 mm) (without supplied rackmount kit)
  - 19x6x1.75 in (483x152x45 mm) (with supplied rackmount kit)
- 24- and 32-port switches WxDxH:
  - 15.3x6x3.5 in (389x152x89 mm) (without supplied rackmount kit)
  - 19x6x3.5 in (483x152x89 mm) (with supplied rackmount kit)

Cables
- Interface cables between your computers and the switch are required for proper operation. (Cables not included)
  - Use USB-DHEXT-xx-MM to connect DVI computers to the switch.
  - Use USB-HHEXT-xx-MM to connect HDMI computers to the switch.

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

Regulatory Approval
- CE, RoHS
- TAA compliant

Compatible NTI Products
- Combine NTI's extenders, switches, and cables for complex applications.
  - DVI-D to HDMI Single Link Interface Cable (DVI-HD-xx-MM).
  - HDMI USB KVM Extender over HDBase-T (ST-C6USBH-HDBT).

NETWORK TECHNOLOGIES INCORPORATED
1.800.RGB.TECH (800.742.8324) Toll Free: US & Canada
330.562.7070 International calls
330.562.1999 Worldwide fax
sales@ntigo.com
www.networktechinc.com
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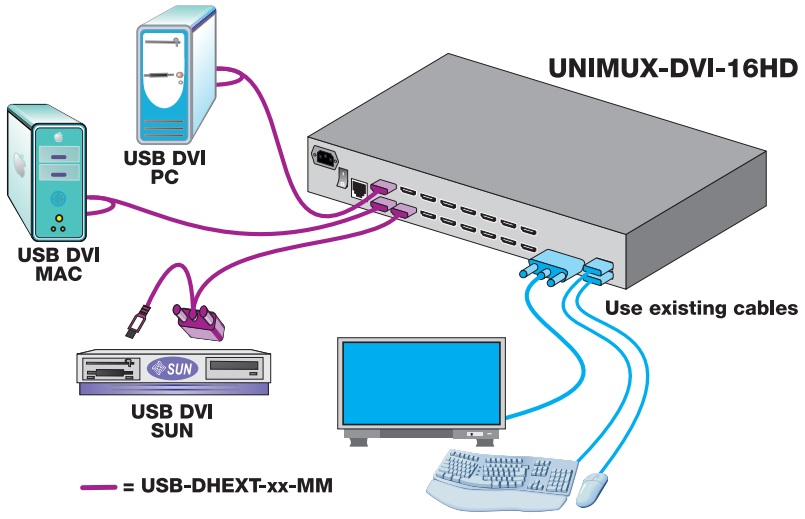
Configuration and Cable Illustration



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 2-255 seconds.
  - **Broadcast Mode** allows the user's keystrokes to be sent to both 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.

Keyboard

- **Scan**, **Broadcast** or **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**.

RS232 Control

- Female RJ45 connector.
- Baud rate 2400, 9600, 19200, or 38400.
- Use DIP switches to set the baud rate and address up to 16 units, all of which can be daisy chained and controlled by one serial port.
- 5-foot (1.5-meter) CAT5e patch cable, RJ45F-DB9F and RJ45F-DB25F adapters included.
- **Commands**
  - RS - causes switch to reset so that IN1 connects to OUT1, IN2 connects to OUT2.
  - CS - causes one INx/OUTx connection to occur.
  - CA - causes all inputs to connect to specified output.
  - RO - reads what input is connected to specified output.
  - RU - reads size of matrix, reports number of inputs and number of outputs on specified switch.

High Density USB DVI KVM Switches

NTI Part #	# of CPUs (x)	Desktop Size WxDxH without supplied rackmount kit	Rack Size WxDxH with supplied rackmount kit
UNIMUX-DVI-4HD	4	15.2x6x1.75 in (386x152x45 mm)	19x6x1.75 in (483x152x45 mm)
UNIMUX-DVI-8HD	8	15.2x6x1.75 in (386x152x45 mm)	19x6x1.75 in (483x152x45 mm)
UNIMUX-DVI-16HD	16	15.2x6x1.75 in (386x152x45 mm)	19x6x1.75 in (483x152x45 mm)
UNIMUX-DVI-24HD	24	15.3x6x3.5 in (389x152x89 mm)	19x6x3.5 in (483x152x89 mm)
UNIMUX-DVI-32HD	32	15.3x6x3.5 in (389x152x89 mm)	19x6x3.5 in (483x152x89 mm)

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330.562.7070 International calls
330.562.1999 Worldwide fax
sales@ntigo.com
www.networktechinc.com
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