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

- High quality construction.
- Features NTI's patented true autoboot USB switching – all attached USB PCs, MACs and SUNs can be booted simultaneously.
- Compatible with USB-enabled PCs.
- Compatible with SUN T1000, SUN 1000, SUN V210, SUN Fire™ V240, SUN Fire V20z, and other USB-enabled SUN computers.
- Compatible with MAC G4/G5 and Xserve. Supports MAC soft (keyboard) power-on.
- Crisp and clear 2048x1536 video resolution.
- Fully compliant with USB standards (1.0, 1.1).
- USB MAC and SUN start-up keys are supported.
- SUN extra keys are emulated on USB keyboards with Windows keyboard layouts.
- Available with RS232 control option (8-port model only).
- Supports international keyboard layouts in auto-detection mode.

Cascade to add ports to your switch

- Cascade 4, 8 or 16-port UNIMUX switches off a single master switch to control up to 1,024 computers as if from one switch.
- Cascaded switches use computer/video ports and the remote port on the master switch.

Configuration and Cable Illustration

UNIMUX-USBV-80-RS (Front & Back)

- World’s Only True 16/32-port VGA USB KVM Switch

The UNIMUX™ 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 & mouse presence to each attached CPU 100% of the time so all computers boot error-free.
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**Specifications**

**Hosts**
- Female 15-pin HD and female USB Type B connectors.
- Supports USB-enabled PC, SUN and MAC computers with VGA video.
- Any legacy PS/2 or SUN computer can be connected by using a USB-PS2-R or USB-SUN-R adapter.

**Monitor**
- Crisp and clear resolution up to 2048x1536.
- Female 15 pin HD connectors.
- A multiscan VGA monitor is required to display the different video outputs from different platforms.
- Bandwidth is 150 MHz.

**Devices**
- Female USB Type A connectors.
- Compatible with most USB keyboards and mice, including wireless.
- Keyboard and mouse are hot-pluggable.
- Supports two USB devices directly connected.
- Supports up to eight USB devices (keyboards and mice only) using USB hubs (not included).

**Power**
- 110 or 220 VAC at 50 or 60 Hz via AC adapter for 2-, 4-, 16-, and 32-port models.
- 110 or 220 VAC at 50 or 60 Hz via IEC connector for 4-port with RS232 option and 8-port models.

**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: 5 to 90% non-condensing RH.

**Regulatory Approvals**
- CE, RoHS
  - CE available on all models except UNIMUX-USBV-2.

<table>
<thead>
<tr>
<th>Power Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTI Part #</td>
</tr>
<tr>
<td>UNIMUX-USBV-2</td>
</tr>
<tr>
<td>UNIMUX-USBV-8O</td>
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<tr>
<td>UNIMUX-USBV-32O</td>
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<table>
<thead>
<tr>
<th>MTBF</th>
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<tr>
<td>NTI Part #</td>
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<td>UNIMUX-USBV-8O</td>
</tr>
<tr>
<td>UNIMUX-USBV-32O</td>
</tr>
</tbody>
</table>
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**Built-in Control Methods**

**Keyboard**
- Use the keyboard to command the switch box to select ports or configure the SCAN delay.

**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.

**On Screen Display (OSD)**
- Select computers by name with the On Screen Display (OSD) option. Not available on the 2-port switch.
- Use keyboard or mouse to operate the switch from menus superimposed onto the monitor.
- Shows names of computers on cascaded switches up to 152 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.
- Helps 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 with OSD option.
- Each user password can be up to 13 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.

**PS/2 to USB and SUN to USB Adapters**

**USB-PS2-R**
- The USB-PS2-R adapter connects a legacy PS/2 computer to an NTI USB KVM switch.
- Two female USB Type A and two male 6-pin miniDIN connectors.
- One-meter male USB Type A to male USB Type B cable is included.
- Dimensions WxDxH (in): 2.4x4x1.1.

**USB-SUN-R**
- The USB-SUN-R adapter connects a legacy SUN computer to an NTI USB KVM switch.
- Two female USB Type A and one male 8-pin miniDIN connectors.
- One-meter male USB Type A to male USB Type B cable is included.
- Dimensions WxDxH (in): 2x3.7x1.1
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### Optional

#### RS232 Control
- **Control:**
  - Female DB9 connector.
  - Baud rate 300 through 9600, DIP switch selectable.
  - Use DIP switches to address up to 15 units, all of which can be daisy-chained and controlled by one serial port.
  - Seven segment displays show what input is connected to each output.

- **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.

#### PS/2 to USB Adapter
- The USB-PS2-R adapter connects a legacy PS/2 computer to an NTI USB KVM switch.
- Two female USB Type A and two male 6-pin miniDIN connectors.
- One-meter male USB Type A to male USB Type B cable is included.
- Dimensions WxDxH (in): 2.4x4x1.1

#### PS/2 to USB Adapter
- The USB-SUN-R adapter connects a legacy SUN computer to an NTI USB KVM switch.
- Two female USB Type A and one male 8-pin miniDIN connectors.
- One-meter male USB Type A to male USB Type B cable is included.
- Dimensions WxDxH (in): 2x3.7x1.1

### VGA USB KVM Switch Models

<table>
<thead>
<tr>
<th>NTI Part #</th>
<th># of CPUs (x)</th>
<th>Desktop Size WxDxH (in)</th>
<th>Rack Units</th>
<th>Rack Size WxDxH (in)</th>
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<td>NA</td>
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<td>13.3x5.9x1.75</td>
<td>1RU</td>
<td>19x5.9x1.75 (with supplied rackmount kit)</td>
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<td>UNIMUX-USBV-8O</td>
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<td>4RU</td>
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<tr>
<td>UNIMUX-USBV-80-RS</td>
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<td>13.3x5.9x1.75</td>
<td>1RU</td>
<td>19x5.9x1.75 (with supplied rackmount kit)</td>
</tr>
</tbody>
</table>

### Ordering Specifications

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

**UNIMUX - USBV - [x O R RS]**

- **Universal Serial Bus Version**
- **Number of Ports**
- **Standard Control Method**
- **Optional Rack Mount Enclosure**
- **Optional Control Method**

**“x” = 2, 4, 8, 16, 32**
- O = OSD Not available on 2-port switch
- R = Only available on 2-port switch
- RS = RS232