

# UNIVERSAL MULTI-PLATFORM KVM SWITCH

Control up to 32 PC and SUN computers



**NODEMUX® ST-8U0 (Front and Back)**

## Features & Applications

The NODEMUX® Universal ST-xU Multi-Platform KVM Switch allows one keyboard, monitor and mouse to control up to 32 computers. Dedicated internal microprocessors emulate keyboard and mouse presence to each attached computer 100% of the time, so all computers boot error-free.

- Compatible with PC and SUN computers, including HP 9000, Silicon Graphics and IBM RS6000, SUN Ultra 5 and 10, Enterprise, and any SUN with a VGA or 13W3 video port.
- Connect a USB PC or SUN using a USB-PS2 or USB-SUN adapter.
- Control all network computers from one office.
- Supports 1900x1200 video resolution; sharpest and clearest VGA of any manufacturer.
- Power down the switch without causing failures on SUN computers.
- Catch system failures early with **Scan Mode**.
- Broadcast keystrokes to all computers for simultaneous shut-down.

## Cascade To Add Ports To Your Switch

- Cascade 4, 8 or 16-port units from one switch to control up to 152 computers.
- Cascaded switches use one CPU port and the remote port on the master switch.
- Connect up to eight slave units to one master unit.
- All switches connected to the master unit must have the same number of ports.
- Control signal is daisy-chained.
- Use REXT-SR-xx and standard interface cables to connect cascaded switches.

## Specifications

### Hosts

- Female 15-pin HD and female 8-pin miniDIN connectors.
- Supports PS/2 platform computers, including laptops, RS6000, SGI and HP 9000.
- Supports SUNs, including ULTRAs, SUN Blade 100, SUN Blade 1000, SUN Fire™ 240, SUN Ray, and SUN Fire™ V20z.
- Any USB-enabled PC or SUN computer can be connected by using a USB-PS2 or USB-SUN adapter.

### Monitor

- Crisp and clear 1900x1200 resolution.
- Female 15-pin HD connector.
- A multiscan VGA monitor is required to display the different video outputs from different platforms.
- Bandwidth is 150 MHz.

### Keyboard

- Female 8-pin miniDIN connectors. Use adapter cables listed on page 4.
- User devices can be PS/2 or SUN.
- Keyboard is hot-pluggable.
- SUN startup keys are supported on SUN and PS/2 input devices.

### Supported SUN Keyboards

- SUN US/English keyboards are supported across all platforms. Non-US SUN keyboards are supported to SUN only computers.

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## Specifications (Continued)

### Mouse

- PS/2 mouse connects to “Y” adapter cable (VKTINT-1) with PS/2 keyboard.
- Mouse is hot-pluggable.
- PS/2 mouse can be an IntelliMouse®; the wheel button acts like a third button for SUNs.
- SUN 3-button mice are supported.
- User keyboard and mouse must be of the same platform.

### Power

- 110 or 220 VAC at 50 or 60 Hz via AC adapter for 2-, 16- and 32-port models.

- The smaller models use AC adapters as their power source.

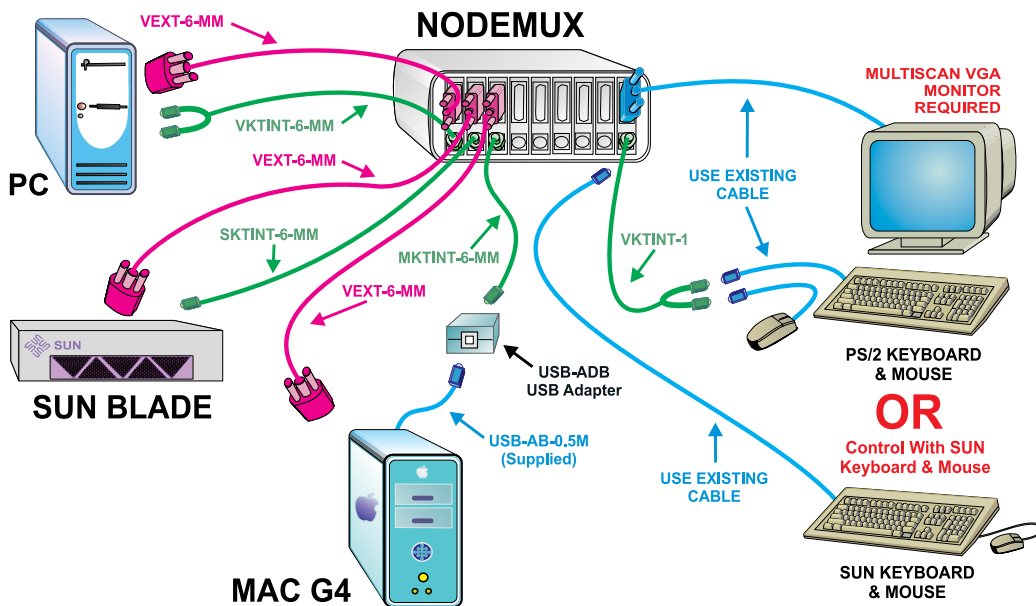
### Regulatory Approvals

- CE, RoHS
  - CE available on all models except ST-2U.

### Warranty

- Two years

## Configuration and Cable Illustration



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## USB to PS2 and USB to SUN Adapters



### USB-SUN

- Connects a SUN USB-enabled computer (SUN Blade 100, SUN Blade 1000, SUN Fire™ 280R and SUN Ray) to an NTI Universal KVM Switch.
- Fully supports special keys on SUN keyboards.
- Female 8-pin miniDIN and female USB Type B connector.
- Use a SKTINT-xx-MM cable to connect the adapter to the NTI switch.
- Dimensions WxDxH (in): 2.5x1.6x1.
- A 0.5 meter USB cable is supplied.



### USB-PS2

- Connects a PC USB-enabled computer and an NTI Universal KVM Switch.
- Female 6-pin miniDIN and male USB Type A connectors.
- Length: 0.3 meters.
- SUN keyboard translation.

## Control Methods

### On Screen Display (OSD) Option

- Locate and select computers by name with 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 152 ports.
- Names can be up to 14 characters long.
- Displays the platform of each computer.
- Displays power status of each computer.
- Provides **Control**, **Scan**, and **Broadcast** functions.
- **Search Mode** allows the user to type in part of the computer's name while the closest match is highlighted.
- 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.
- Optional feature. Not available on 2-port switches.
- Add “O” to the end of the part number to specify this option.

### Security Features

- 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.
- Each user password and name can be up to 15 characters long, and each switch can store up to 63 users.
- Advanced security included with OSD option.

### RS232 Control Option

- Control the switch through the serial port.
- Baud rate 300 through 9600, DIP switch selectable.

- Use DIP switches to address up to eight units, all of which can be daisy-chained and controlled by one serial port.
- Optional feature. Available on switches with four or more ports.
- Add “RS” to the end of the part number to specify this option

### 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.
- 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. Duration of display can be 2-255 seconds.
  - **Broadcast Mode** allows the user's keystrokes to be sent to all powered-on computers. (**Broadcast Mode** is not available for MACs.)
  - **Command Mode** allows the user to give instructions to the switch through the keyboard. Keystrokes are not passed to the computer.
  - **Scan**, **Broadcast** or **Command Modes** are available from the keyboard.

### Keyboard

- Type <Ctrl> + <`> (or <Compose> + <`>) to go into **Command Mode**. (“`” is the accent mark located on the same key as the tilde “~”.)
- Press <Esc> to leave **Command Mode** and return to **Normal Mode** or **Scan Mode**.

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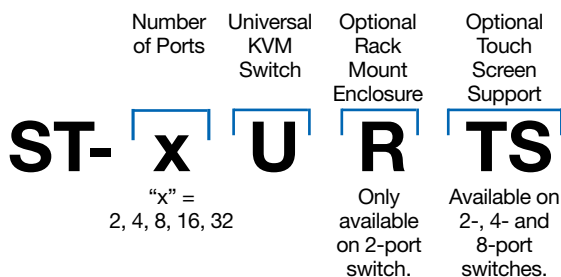
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## Touch Screen Option

- Control multiple computers (file servers, network managers, etc.) using a single touch screen monitor, keyboard, and mouse.
- Available models:
  - ST-2UTS (Desktop)
  - ST-4UTSO (Rackmount)
  - ST-8UTSO (Rackmount)
- ST-xU-TSO is only compatible with 3M MicroTouch touch screen monitors with EX II 8000SR Controller.
- Boot all computers in one operation without keyboard and mouse error.
- Baud rate: 9600.
- On Screen Display (OSD) is standard on ST-xUTSO models Not available on ST-2UTS.
  - Control the OSD via the touch screen monitor.

## 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.



### Universal KVM Switch Models

NTI Part #	# of CPUs (x)	Desktop Size WxDxH (in)	Rack Units	Rack Size WxDxH (in)
ST-2U	2	8x6.2x2.6	NA	NA
ST-2UR	2	NA	1RU	19x10x1.75
ST-4UO	4	13.3x5.9x1.75 (without supplied rackmount kit)	1RU	19x5.9x1.75 (with supplied rackmount kit)
ST-8UO	8	13.3x5.9x1.75 (without supplied rackmount kit)	1RU	19x5.9x1.75 (with supplied rackmount kit)
ST-16UO	16	NA	2RU	19x10x3.5
ST-32UO	32	NA	4RU	19x10x7

## Cables

- Interface cables between your computers and the switch are required for proper operation. See chart for necessary cables.
- Use REXT-SR-xx and standard interface cables to connect cascaded switches.
- Cables not included.

### Adapter Cables

NTI Part #	Description
VKTINT-1	"Y" cable connects PS/2 keyboard & mouse to NTI's switch
VKTINT-xx-MM	PS/2 keyboard & mouse ports to NTI's switch; "Y" cable
SKTINT-xx-MM	Connect SUN keyboard port to NTI's Universal KVM switch
VEXT-xx-MM	Connect VGA video to NTI's switch
13W3M-15HDF	Adapt a SUN video port to a VGA monitor

Note: VKTINT-xx and SKTINT-xx cables are designed for NTI's Universal KVM switches. No other manufacturers' cables are supported.



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