UNIVERSAL MATRIX KVM SWITCH

Up to eight users can control 32 PC and SUN computers

1.75"
or
1RU

**4 Users
and 16 Computers
in 1 RU**

NODEMUX® ST-4X16-UHD High Density Matrix KVM Switch (Front and Back)

Features & Applications

The NODEMUX® Universal Multi-Platform Matrix KVM Switch enables up to eight users to individually command or simultaneously share up to 32 computers.

This low-cost switch accesses PC and SUN computers (and USB computers with NTI adapters). PC or SUN keyboards and mice can be connected by using adapter cables.

- Equipped with On Screen Display (OSD), Liquid Crystal Display (LCD) and RS232 control.
- Rackmount is standard on all NODEMUX ST-nXm-U models. The smaller models are also available in a desktop case (denoted by "DT" in part number).
- Users can power-down the switch without rebooting attached computers.
- Dedicated microprocessors prevent computers from locking up, ensuring reliable control.

- The advanced OSD user interface with password security makes the NODEMUX matrix switch simple and reliable to use in Enterprise data centers.
- Use as a single- or multi-platform switch.
- Users can work individually or share one computer.
- The high density switches save you rack space (look for "HD" at the end of the part number). Cabling runs are simplified with NTI's high density KVM switch cables.
  - Includes cable management shelf.

Specifications

Hosts

- Supports PS/2 platform computers, including laptops, HP 9000, Silicon Graphics and IBM RS6000.
- Supports SUN, including ULTRAs, SUN Blade 100, SUN Blade 1000, SUN Fire™ 240 and SUN Ray (using NTI's USB-SUN adapter).
- Any USB enabled PS2 or SUN computer can be converted by using a USB-PS2 or USB-SUN adapter.

Connectors

- ST-nXm-U: female 15-pin HD and female 8-pin miniDIN connectors.
- ST-nXm-UxHD: female 26-pin SCSI II connectors.

Monitor

- Crisp and clear 1900x1200 video resolution.

- A multiscan VGA monitor is required to display the different video outputs from different platforms.
- Bandwidth is 150 MHz.

Keyboard

- User devices can be PS/2, SUN or MAC.
- SUN startup keys are supported on all platforms of input devices.
- Keystrokes are translated across platforms.
- Keyboard is hot-pluggable.
- Internet and multimedia Windows key supported.

Supported SUN Keyboards

- SUN US/English keyboards are supported across all platforms. Non-US SUN keyboards are supported to SUN only computers.
- NTI recommends using SUN keyboards for multi-platform use because they have additional keys.

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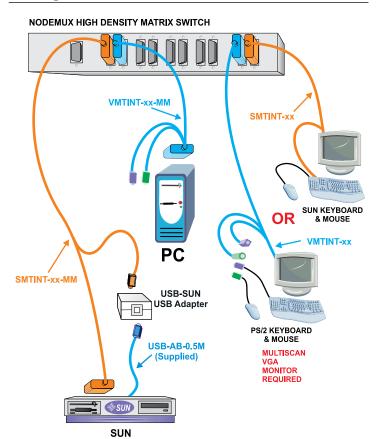
Specifications (Continued)

Mouse

- Smooth mouse movement.
- Compatible with all standard 2-button PS/2 mice as well as the following:
  - Microsoft IntelliMouse®.
  - Logitech (and other) 3-button mice.
  - Alps glidepoint touchpad (extended functions–i.e. tapping, etc.–are not supported).
  - Cirque Glidepoint touchpad.
  - IBM Scroll Point mouse (extended stick functions are not supported).
  - Kensington Orbit trackball.
  - Logitech 2-button wheel mouse.
  - Microsoft Ballpoint mouse.
- SUN 3-button mice are supported.
  - Wheel button on IntelliMouse emulates SUN's third mouse button.

Power

- 110 or 220 VAC at 50 or 60 Hz via IEC connector.
- The 2x2, 2x4, 2x8 and 4x8 units use AC adapters as their power source.

Configuration and Cable Illustration

NODEMUX HIGH DENSITY MATRIX SWITCH

VMTINT-xx-MM

SMTINT-xx

SMTINT-xx-MM

PC

OR

VMTINT-xx

SUN KEYBOARD & MOUSE

USB-SUN USB Adapter

USB-AB-0.5M (Supplied)

PS/2 KEYBOARD & MOUSE

MULTISCAN VGA MONITOR REQUIRED

SUN

Regulatory Approvals

- CE, RoHS
  - CE not available on ST-2X2-UDT, ST-2X4-UDT, ST-2X8-UDT or ST-4X8-UDT

Warranty

- Two years.

High Density KVM Matrix Switch with Cable Management Shelf (Standard feature for -UHD switches)

Built-In Control Methods

Front Panel Interface

- Locally change ports with front panel keypad.
- Use front panel keypad to move through LCD screens.
- LCD indicates currently selected port.
- Set baud rate for RS232 control.
- Set unit address for RS232 multi-switch control.
- Set up user-to-computer connections.
- Save and recall up to 10 different user-to-computer configurations.
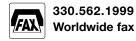
RS232 Control

- Baud rate 1200 through 9600.
- Address up to 15 units, all of which can be RS232 daisy-chained and controlled by one serial port.

On Screen Display (OSD)

- Locate and select computers by name.
- OS and software-independent.
- OSD is built into the switch–no need to install additional hardware or software.

Security

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

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Ordering Specifications

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

| Number of Users | Number of Computers | Universal KVM Switch | High Density | Optional Desktop Style* |

$$\text{ST} - n \text{ X } m - \text{U HD DT}$$

Universal Matrix KVM Switch Models

NTI Part #	# of Users (n)	# of CPUs (m)	Desktop Size WxDxH (in)	Rack Units	Rack Size WxDxH (in)
ST-2X2-U	2	2	NA	1RU	19x10x1.75
ST-2X2-UDT	2	2	10x7.5x3.3	NA	NA
ST-2X4-U	2	4	NA	1RU	19x10x1.75
ST-2X4-UDT	2	4	10x7.5x3.3	NA	NA
ST-2X8-UDT	2	8	10x7.5x3.3	NA	NA
ST-2X32-U	2	32	NA	3RU	19x12x5.25
ST-4X8-UDT	4	8	10x7.5x3.3	NA	NA
ST-4X32-U	4	32	NA	3RU	19x12x5.25
ST-8X8-U	8	8	NA	3RU	19x12x5.25
ST-8X16-U	8	16	NA	3RU	19x12x5.25
ST-8X24-U	8	24	NA	3RU	19x12x5.25
ST-8X32-U	8	32	NA	3RU	19x12x5.25

High Density Universal Matrix KVM Switch Models

NTI Part #	# of Users (n)	# of CPUs (m)	Desktop Size WxDxH (in)	Rack Units	Rack Size WxDxH (in)
ST-2X8-UHD	2	8	NA	1RU	19x12.5x1.75
ST-2X16-UHD	2	16	NA	1RU	19x12.5x1.75
ST-4X8-UHD	4	8	NA	1RU	19x12.5x1.75
ST-4X16-UHD	4	16	NA	1RU	19x12.5x1.75

* Only available on select ST-nXm-U switches.

Cables

- NTI universal cables between user devices and the NODEMUX ST-nXm-U are required for proper operation.

- Cables not included.

Compatible Cables for Universal Matrix KVM Switches

Cable/Length (Ft.)	Description	Type
VKTINT-3/6/10/15/25/35/50-MM	Connects PS/2 Computers to an NTI Universal Switch	PS/2
SKTINT-3/6/10/15/25/35/50-MM	Connects SUN Computers to an NTI Universal Switch	SUN
VEXT-3/6/10/15/25/35/50/75/100-MM	Connects VGA & SVGA video port to an NTI Universal KVM switch Male-Male 15-pin HD, multicoax. Resolution through 1900 x 1200	PS/2 SUN MAC
VKTINT-1	Connects PS/2 Keyboard & Mouse to an NTI Universal Switch (Female 6-pin miniDINs - Male 8-pin miniDIN)	PS/2
13W3M-15HDF	Adapts a 13W3 Sun video port to VGA video port on an NTI Universal KVM switch	SUN
15DM-15HDF	Adapts a MAC video port to VGA video port on an NTI Universal KVM switch	MAC

Compatible Cables for High Density Universal Matrix KVM Switches

Cable/Length (Ft.)	Description	Type
VMTINT-3/6/10/15/25-MM	Connects an NTI High Density Switch to a PS/2 CPU	PS/2
SMTINT-3/6/10/15/25-MM	Connects an NTI High Density Switch to a SUN CPU	SUN
SMTINT-3/6/10/15/25	Connects VGA monitor, SUN keyboard to an NTI High Density Switch	SUN
VMTINT-3/6/10/15/25	Connects VGA monitor, PS/2 keyboard and mouse to an NTI High Density Switch	PS/2

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