NETWORK
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KEEMUX-P2 (2-Port PS/2 KVM Switch)

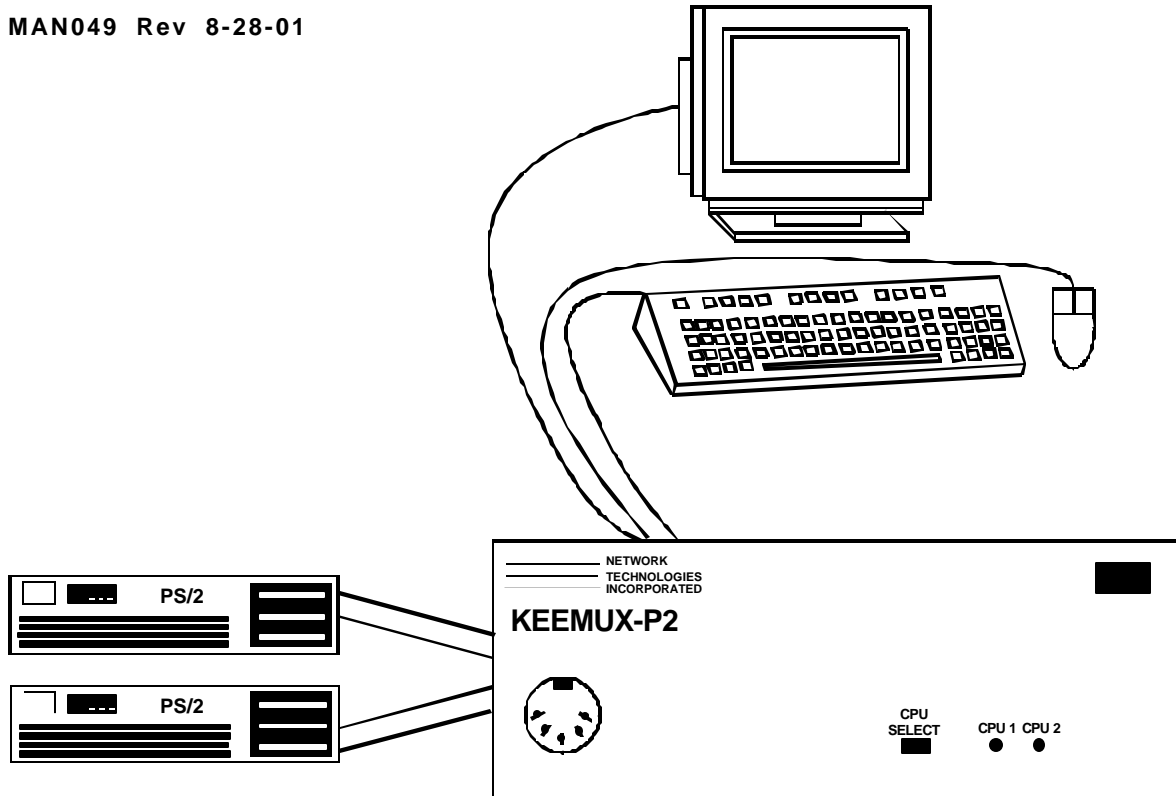## INSTALLATION / USER GUIDE

MAN049 Rev 8-28-01

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INTRODUCTION

The KEEMUX-P2 switch allows one user to access two PS/2 computers with only one keyboard, monitor and mouse. Internal auto-boot circuitry allows both computers to boot simultaneously and error-free without the need for a keyboard, monitor and mouse on each computer.

MATERIALS

Materials Supplied with this kit:

1.   NTI PS/2 KVM Switch

Materials Not Supplied, BUT REQUIRED:

1.   A set of 2 cables for each computer being connected to the switch must be used:

PS/2 computer to switch
1.   VEXT-xx-MM (high res) or VINT-xx-MM (low res) for video interface
2.   (1) VVKINT-xx-MM for keyboard and mouse interface.

OR

(2) VKINT-xx-MM for keyboard or mouse interface

Materials Not Supplied, BUT MAY BE REQUIRED:

VKINT-1K-1   Booster Cable for keyboard or mouse interface with Compaq Proliant 2000 and non-Intel architecture Unix machines with PS/2 ports (such as HP-9000).   Two VKINT-1K-1 cables are needed for each applicable computer.

INSTALLATION

1.   Turn OFF power to all computers that will be connected to the NTI Switch before connecting or disconnecting any cables
WARNING! YOU MAY DAMAGE YOUR COMPUTER IF YOU DO NOT TURN THE POWER OFF BEFORE CONNECTING OR DISCONNECTING CABLES.
2.   Connect PS/2 keyboard to "USER KEYBD" port on rear panel of switch.
3.   Connect PS/2 Mouse to "USER MOUSE" port on rear of switch.
4.   Connect monitor to "MONITOR" port on rear of switch.
5.   Using (1) VVKINT-xx-MM or (2) VKINT-xx-MM or VKEXT-xx-MM cables (required, not supplied), connect keyboard and mouse ports of PS/2 computer to "CPU-1 KEYBD" and "CPU-1 MOUSE" ports on rear of switch.
NOTE: If installing a Compaq Proliant 2000 or a non-Intel architecture Unix machine with PS/2 ports (such as HP-9000), booster cables may be needed (VKINT-1K-1).   If booster cables are used, they must first be directly connected to both the keyboard and mouse CPU ports on the switch.
6.   Using VINT-xx-MM or VEXT-xx-MM (required, not supplied), connect video port of PS/2 computer to "CPU-1 VIDEO" port on rear of switch.
7.   Repeat steps 5 & 6 for CPU-2.

POWER-UP SEQUENCE

1. The KEEMUX-P2 is powered by the computers it is connected to.
2. Turn on power to monitor.
3. Turn on power to either or both computer(s).

POWER-DOWN SEQUENCE

1.   Power down computers.

USING THE NTI SWITCH

The switch can be operated by the front control panel or by keyboard control.

Front Panel Control

1.   Pressing the touch switch on the front panel will toggle between CPU 1 and CPU 2 and connect the selected computer to the keyboard, monitor and mouse.
2.   Holding down the "CPU SELECT" button for more than 2 seconds will cause the switch to cycle through 3 extended modes of operation: SCAN, BROADCAST, and COMMAND (see Keyboard Control, Scan and Broadcast sections). Release the button when the desired mode has been selected.

Keyboard Control

To control switch from keyboard, "COMMAND" Mode must be enabled.

To enable "COMMAND" Mode:	"CTRL" + "`" (accent key)
To disable "COMMAND" Mode:	"ESC" or "CTRL" + "`"
To increment port:	"I" or →
To decrement port:	"D" or ←
To select a specific port:	"P01" or "P02"
To enable / disable "BROADCAST" Mode:	"B"
To enable / disable "SCAN" Mode:	"S"
To set the scan dwell time (time in seconds before switching to other port):	"Txxx" (xxx from 002 to 255)

*NOTE: You must exit "COMMAND" Mode in order to type to a computer.

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SCAN

SCAN Mode is indicated by a flashing CPU port LED. The switch scans to either port with a CPU powered ON. That port remains active for the configured dwell time (default time is 5 seconds) before switching to the other powered ON CPU port. See *Keyboard Control* Section for configuring the scan dwell time.

NOTE: The keyboard and mouse must remain idle for the full SCAN dwell time before the switch selects the other port.

BROADCAST (use with extreme caution)

BROADCAST Mode is indicated when both CPU LED's are illuminated. This mode allows the operator to send keystrokes to both active computers simultaneously. However, BROADCAST Mode has some critical requirements:
1. BROADCAST Mode must be off when booting and attached computer.
2. COMMAND Mode must be OFF for keystrokes to reach attached computer when in BROADCAST.

KEYBOARD FEATURES

The keyboard configuration of each computer is saved in the NTI Switch. For example, if the computer attached to Port 2 had CAPS LOCK and NUM LOCK selected the last time that computer was accessed, then they will automatically be set when that computer is accessed again.

KEEMUX-P2 REMOTE SPECIFICATON (RMT-2-ST)

5 DIN	SIGNAL	DESCRIPTION
1	LED1	TTL output, low = port 1 selected
2	LED2	TTL output, low = port 2 selected
3	SWT	TTL of contact closure input (10K pullup)
4	GND	Ground
5	PWR	+5V for LED''s, limited to 20ma

Low= < .4 volts High=> 2.4 volts

Control: When pin 3 (SWT) is brought low for a minimum of 10 MS, and then returned high, the switch will select the other port (toggle).

TROUBLESHOOTING

1. Verify all cables are securely connected and that installation procedure was carefully followed.
2. Verify that power-up sequence was observed.
3. If a computer seems to be locked up, press the "CPU SELECT" button a couple of times.
4. If the problem still persists, unplug the keyboard and mouse cables (not the CPU keyboard and mouse) from KEEMUX-P2 and reconnect them.
5. If a Compaq Proliant 2000 or non-Intel architecture Unix machine with PS/2 ports (such as HP-9000) does not detect a keyboard or mouse attached when booting, booster cables (VKINT-1K-1) may be needed for both the keyboard and mouse CPU ports. See note under "INSTALLATION" on page 3 for proper installation instruction.

WARRANTY INFORMATION

The warranty period on this product (parts and labor) is one (1) year from the date of purchase. Please contact Network Technologies Inc at **(800) 742-8324** (800-RGB-TECH) or **(330) 562-7070** or visit our website at http://www.nti1.com for information regarding repairs and/or returns. A return authorization number is required for all repairs/returns.

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CHANGES

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SERIAL NO.: _____

DATE: _____

INSPECTED BY: _____

☐   **KEEMUX-P2**

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