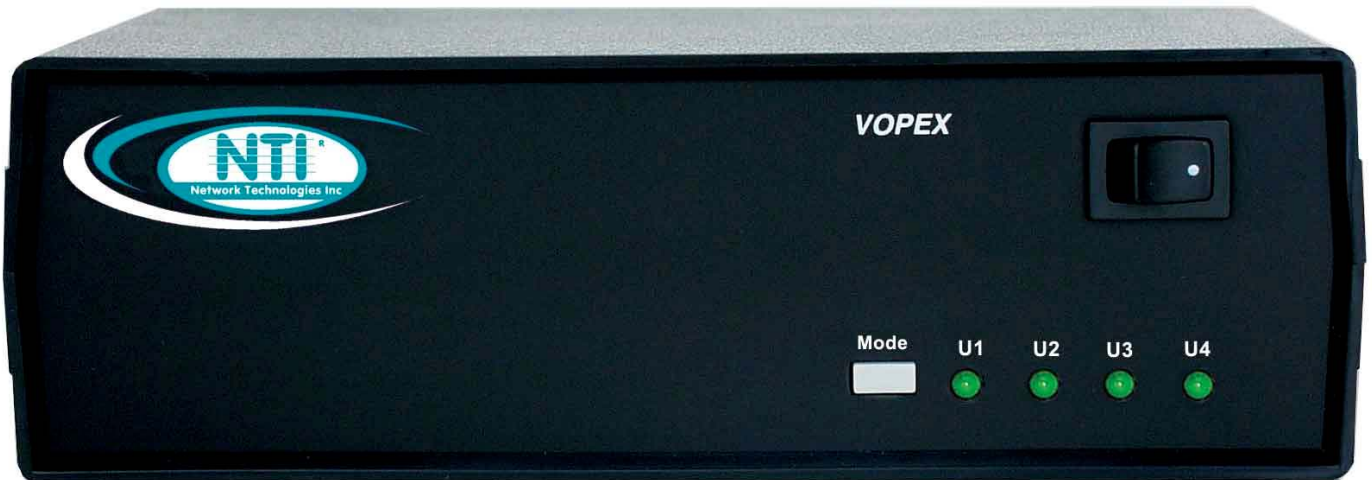


VOPEX™ Series

VOPEX

PS/2 KEYBOARD, MONITOR & MOUSE SPLITTER

Installation and Operation Manual



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)** in US and Canada or **(330) 562-7070** (worldwide) for information regarding repairs and/or returns. A return authorization number is required for all repairs/returns.

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CHANGES

The material in this guide is for information only and is subject to change without notice. Network Technologies Inc reserves the right to make changes in the product design without reservation and without notification to its users.

Note: Any internal building wiring must be performed by a local licensed electrician and comply with the National Electrical Code (NEC) requirements.

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INTRODUCTION

This VOPEX allows 1 IBM compatible CPU to support multiple users (up to 4, depending on the VOPEX model). The PS/2 devices (keyboards and mice) of many different manufacturers can be plugged into the VOPEX when powering up. Also, any combination of devices will work. (e.g. a mouse on port 2, keyboards on ports 3 & 4). Hot plugging devices at any time is fully supported with the possible exceptions listed in "MOUSE SPECIAL CONSIDERATIONS" (see page 3).

Available Options

- VOPEX models are available in 60 or 50Hz, and 110 or 220V.
- VOPEX models are available with or without support for any combination of these options: keyboard, mouse (PS/2 or 9D serial mouse), and VGA monitor.

MATERIALS

Materials supplied with this kit

- VOPEX
- A set of cables connecting the VOPEX to the IBM compatible CPU:
 - VEXT-3 -Connects the Video port of the CPU to the VOPEX
 - VVKINT-3-MM -Connects the PS/2 keyboard and mouse ports of the CPU to the VOPEX

Optional Materials

- A cable for each device to be connected to the VOPEX.
 - VKEXT-xx or DKEXT-xx -PS/2 Keyboard or Mouse extension cable
 - VEXT-xx -VGA video extension cable

Where: xx is the length of the cable in feet, and
MM indicates male-to-male connectors.

Cables can be purchased from Network Technologies Inc by calling (330) 562-7070, or (800) RGB-TECH (800-742-8324), or by visiting our website at <http://www.nti1.com>.

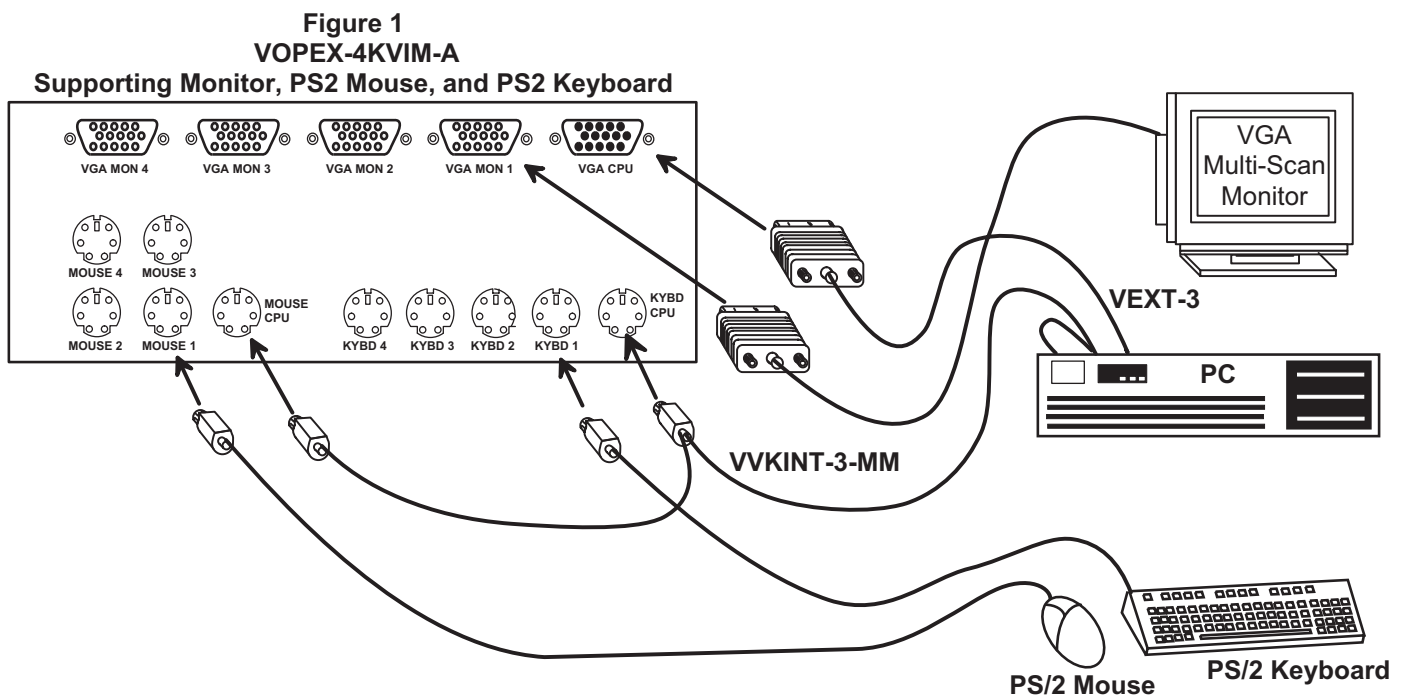
Note: Any internal building wiring must be performed by a local licensed electrician and comply with the National Electrical Code (NEC) requirements.

CONNECTING THE VOPEX TO THE CPU

1. Turn OFF power to the CPU that will be connected to the VOPEX before connecting or disconnecting any cables.

WARNING! If power to the CPU is not turned OFF before connecting or disconnecting cables, damage to the CPU may result.

2. Connect the CPU to the VOPEX as follows (see Figure 1):
 - a) Connect a VEXT-3 cable from the video port of the CPU to the male 15HD port labeled "VGA CPU" on the VOPEX.
 - b) Connect a purple male 6 miniDIN connectors of the VVKINT-3-MM cable from the keyboard port of the CPU to the female 6 miniDIN port labeled "KYBD CPU" on the VOPEX.
 - c) Connect the green male 6 miniDIIN connectors of the VVKINT-3-MM cable from the mouse port of the CPU to the port labeled "MOUSE CPU" on the VOPEX.
3. Plug the VOPEX into an AC power outlet.



Installing the Optional Monitor(s)

1. Plug all monitors into AC power outlets.
2. Turn OFF power to the monitors that will be connected to the VOPEX before connecting them.
3. Connect a monitor to the VGA MON1 port on the back of the VOPEX. See Figures 1 and 2.

Note: A monitor must be connected to the VGA MON1 port for the monitor device driver to function properly.

4. Connect any other monitors to any of the other VGA MON ports on the back of the VOPEX.

Installing the Optional Mouse(Mice)

1. Connect a mouse to the MOUSE1 port on the back of the VOPEX. See Figures 1 and 2.
2. Connect each mouse to a MOUSE port on the back of the VOPEX. Note which port number each user is attached to.

Installing the Optional Keyboard(s)

1. Connect a keyboard to the port labeled KYBD1 on the rear of the VOPEX. See Figures 1 and 2.
2. Connect the other keyboards to the back of the VOPEX, making sure that each user is connected to a Keyboard port and a Mouse port with the same number.

MOUSE SPECIAL CONSIDERATIONS

NOTE: *If the VOPEX is power-cycled with the CPU ON, the mouse driver must be reloaded for mice to function properly.*

1. Hot plugging limitations

- A. Any mouse to be emulated must be connected to the first populated port at VOPEX power-up. e.g. If at a later time the user wants to hot-plug 3-button mice, a 3-button mouse must have been connected in the first position at VOPEX power-up.
- B. If no mice were connected at power-up, VOPEX will default to standard 2-button mode.

2. ALPS Glidepoint

- A. For "taps" function to work properly, ALPS Glidepoint must be in the first populated port on the VOPEX at power-up and ALPS Mouse Driver must be used.
- B. Some Microsoft mice may conflict with ALPS Glidepoint. If a problem occurs, connect ALPS to first populated port and use a regular Microsoft mouse driver. NOTE: "taps" will not function in this configuration.

3. Microsoft Ballpoint

- A. Do not connect Ballpoint to the first populated port if other types of mice are to be used in the VOPEX. If Ballpoint is in the first populated port, all other mice must also be Ballpoints.
- B. At least one Ballpoint must be connected to VOPEX when powering up in order for hot-plugging to work for other Ballpoints.

4. 3-button Mice

- A. A 3-button mouse must be connected to the first populated port for any mice to work as 3-button.

5. Microsoft IntelliMouse

- A. All mice connected to VOPEX must be IntelliMouse to be able to use the IntelliMouse.
- B. The IntelliMouse cannot be hot-plugged.

POWER-UP SEQUENCE

1. Turn ON power to the VOPEX.
2. Turn ON power to the monitor(s).

Note: *The monitor(s) MUST be turned ON before the CPU.*

3. Turn ON power to the CPU.

Keyboards and mice are powered by the VOPEX.

POWER-DOWN SEQUENCE

1. Turn OFF power to the CPU.
2. Turn OFF power to the VOPEX.

DIAGNOSTIC INFORMATION

At power up, the VOPEX uses the mode LEDs on the front panel to report some status. The sequence of events is as follows:

1. When unit is first powered, the LED state is indeterminate.
2. All LEDs are turned OFF, then flashed ON and OFF to indicate processor activity.
3. One LED for each keyboard detected is flashed ON and OFF.
4. One LED for each mouse detected is flashed ON and OFF.
5. The LEDs are left in the proper mode status (see "MODES OF OPERATION").

MODES OF OPERATION

This VOPEX has three basic modes of operation: INSTANT AUTO, DELAYED AUTO, and USERx. Press the "MODE" button on the front panel of the VOPEX to select the desired mode per the chart below:

STATUS OF LED'S	MODE
ALL USER LED'S ON	INSTANT AUTO
ALL LIGHTS OFF	DELAYED AUTO
USER 1 ON, ALL OTHERS OFF	USER1 ONLY
USER 2 ON, ALL OTHERS OFF	USER2 ONLY
USER 3 ON, ALL OTHERS OFF	USER3 ONLY
USER 4 ON, ALL OTHERS OFF	USER4 ONLY

INSTANT AUTO: Any user can gain immediate access to the CPU by pressing a key or moving a mouse, unless another user is active.

DELAYED AUTO: Any user can gain access as long as no user LEDs are currently illuminated. When the active user's keyboard/mouse are idle for at least 5 seconds, user LED goes out and anyone can then gain access.

USERx: The VOPEX has a user mode for each port. When any user mode is selected, that LED remains ON and all other users are locked out until the mode is changed by pressing the MODE button.

MONITORS

All monitors connected to the VOPEX display exactly the same information. For example, if the user connected to Port 3 is inputting data, then all users connected to the VOPEX see what that user is entering.

TROUBLESHOOTING

If any problems are experienced with the VOPEX switch, follow the steps below to see if the problem(s) can be easily corrected:

1. Verify that all cables are securely connected.
2. Verify that a monitor is connected to Port 1.
3. If a user has both a keyboard and mouse, verify that they are connected to a Keyboard port and Mouse port with the same port number.
4. If a cable is disconnected:
 - a) Turn OFF power to the CPU.
 - b) Turn OFF power to the VOPEX.
 - c) Connect the cable.
 - d) Go through the power-up sequence described on page 3.

If trouble is still being experienced, a solution may be found in the Frequently Ask Questions (FAQ's) section of our website at <http://www.nti1.com> or please call us directly at **(800) 742-8324 (800-RGB-TECH)** or **(330) 562-7070** and we will be happy to assist in any way we can.

SERIAL NO.: _____

DATE: _____

INSPECTED BY: _____

- | | | |
|--|----------------------------------|--------|
| <input type="checkbox"/> VOPEX-2KIM-A | PS/2 keyboard + PS/2 mouse | 2 port |
| <input type="checkbox"/> VOPEX-2KVIM-A | PS/2 keyboard + PS/2 mouse + VGA | 2 port |
| <input type="checkbox"/> VOPEX-4KIM-A | PS/2 keyboard + PS/2 mouse | 4 port |
| <input type="checkbox"/> VOPEX-4KVIM-A | PS/2 keyboard + PS/2 mouse + VGA | 4 port |