

VGA KVM Switch via CAT5 – USB, PS2, SUN, Serial

PRIMUM®

Control up to 64 servers in zero rack space

- A single, inexpensive CAT5/5e/6 UTP cable replaces bulky KVM cables.
- Interconnect multiple servers at different locations throughout a building. Servers can be the same or different platforms(PS/2, SUN, USB or serial).
- Ideal for hazardous/unsecured environments. User station can be located up to 1,000 feet from servers.
- Provides a simple daisy-chained wiring configuration.
- Easy to install and use with plug-and-play functionality.
- Hot-swap components with no disruption of server operation.
- Supports crisp and clear resolutions to 1920x1440.
- Dedicated microprocessors prevent computers from locking up, ensuring reliable control.
- Keep-alive keyboard/mouse emulation for flawless operation.
- Supports international keyboard layouts.
- OSD provides fine tuning for optimal video quality.
- Color-coded LEDs on both the local and remote units indicate power status and verify communication between the units.
- Automatically adjusts the video quality to compensate for varying lengths of CAT5/5e/6 cable.
- Configuration is saved and restored even if unit loses power.



PRIMUM-UZR (Front & Back)

- Servers can be the same or different platforms (PS/2, SUN, USB, serial)
- Supports international keyboard layouts

The PRIMUX® Zero-U VGA KVM Switch System allows you to control up to 64 computers without consuming rack space. The switch frees up valuable space by eliminating large KVM switchboxes and bulky hard-to-manage coax cables.

The PRIMUX system consists of two components: the User Station that connects to a keyboard, monitor and mouse, and Host Adapter that connects to a server. Up to 64 Host Adapters can be daisy-chained together providing user access to up to 64 servers. The User Stations and Host Adapters can be located as far as 1,000 feet from each other via CAT5/5e/6 UTP cable.

Specifications

User Station

Monitor

- Female 15-pin HD connector.
- Supports resolutions to 1920x1440.
- A multiscan VGA monitor is required to display the different video outputs from different platforms.
- Supports Separate and Composite TTL level sync.
- Supports the DDC2B protocol.

Devices

- Two female USB Type A and two female 6-pin miniDIN connectors.
- Keyboard and mouse are hot-pluggable.
- User keyboard and mouse must be of the same platform – both USB or PS/2.
- Supports international keyboard layouts.
- Supports all standard PS/2 keyboards and most USB keyboards with Windows or SUN keyboard layout.
- Supports standard 2-button PS/2 mice, as well as other styles.
- Supports most USB mice (up to 3 buttons).
- USB SUN 3-button mice are supported.

Power

- 110 or 220 VAC at 50 or 60 Hz via AC adapter.
- Power consumption: 10W

Dimensions

- WxDxH: 11x11x1.75 in (279x279x44 mm)
- Optional 1RU rackmount kit available (PRIMUM-RK-UZR)

Environmental

- Operating temperature: 32 to 104°F (0 to 40°C).
- Storage temperature: -22 to 140°F (-30 to 60°C).
- Operating /storage relative humidity: 17 to 90% non-condensing RH.

Regulatory Approvals

- CE, RoHS

Warranty

- Two years

Host Adapters

Hosts

- A maximum of 64 host computers can be daisy-chained together.
- One platform-specific (PS/2, SUN, USB or serial) HA-x host adapter is required for each computer.
- HA-PS2
 - Compatible with legacy PS/2 computers with VGA video.
 - One male 15-pin HD and two male 6-pin miniDIN connectors.
 - Dimensions WxDxH (in): 2.1x3.7x1.0
- HA-SUN
 - Compatible with legacy SUN computers with VGA video.
 - One male 15-pin HD and one male 8-pin miniDIN connectors.
 - Dimensions WxDxH (in): 2.1x3.7x1.0
- HA-USB
 - Compatible with USB computers (PC, SUN, MAC) with VGA video.
 - Dimensions WxDxH (in): 2.1x3.7x1.0
 - One male 15-pin HD and one male USB Type A connectors
- HA-RS
 - Compatible with most serial devices with an RS232 port.
 - One female RJ45 EIA-232 serial port connector.
 - Supported signals: TXD, RXD, DSR, DTR, CTS, RTS
 - Emulates an ASCII terminal – converts serial data from ASCII device into VGA video
 - ◆ 800x600 @ 60Hz signal.
 - Screen size: 80 characters wide by 30 lines
 - Selectable baud rate: up to 115200
 - Dimensions WxDxH (in): 2.1x3.5x0.9

Power

- HA-PS2/HA-SUN/HA-USB: Power provided by the host computer.
- HA-RS: Power provided by the host serial device via USB Type A connector.

Environmental

- Operating temperature: 32 to 104°F (0 to 40°C).
- Storage temperature: -22 to 140°F (-30 to 60°C).
- Operating /storage relative humidity: 17 to 90% non-condensing RH.

Regulatory Approvals

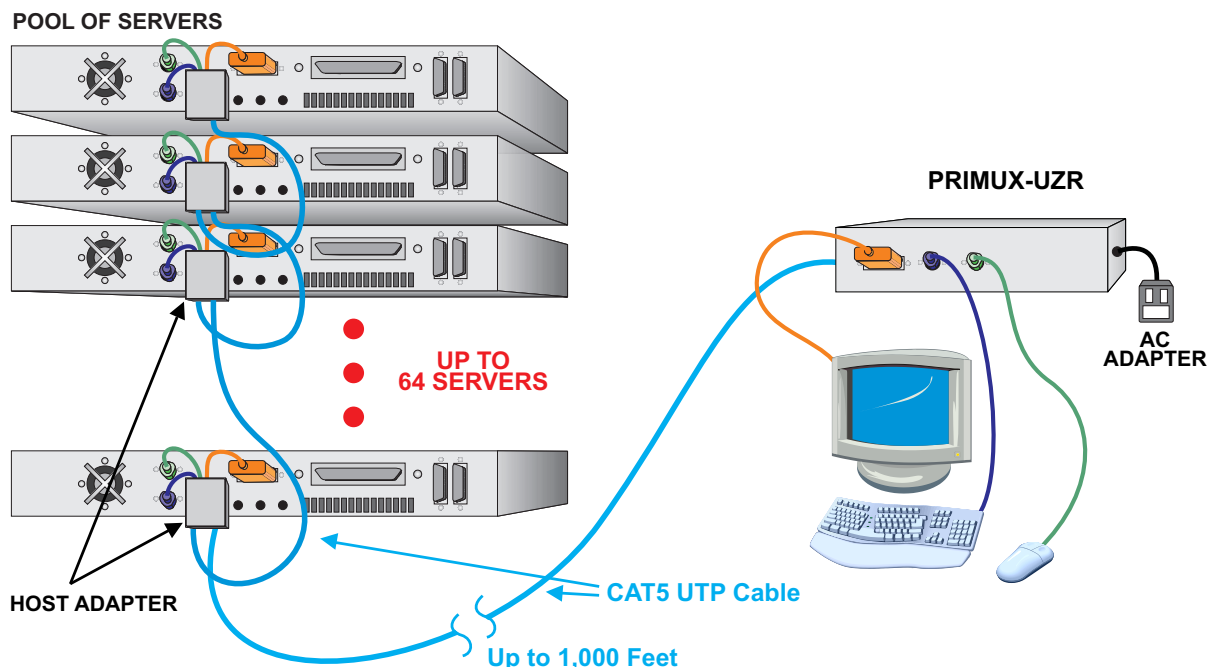
- CE, RoHS

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Configuration and Cable Illustration



Control Methods

On Screen Display (OSD)

- Locate and select computers by name, comment, index or ID.
- Displays the platform, name, and power status of the daisy-chained computers.
- Allows color skew compensation and video compensation fine tuning for optimal video quality.
- OS and software-independent.

Security

- Add or remove authorized users.
- Set individual user names and passwords for each user.
- Administrator can enable or disable all security features and select which computers each user can access.

Front Panel Interface

- Locally change ports with front panel buttons. Provides eight “favorites” buttons allowing the user to program buttons to select frequently used computers.

Keyboard

- Use the keyboard to command the user station to select ports or configure the Scan delay.
- **Scan Mode** automatically and sequentially displays the video from each powered-on computer.
- **Command Mode** allows the user to give instructions to the switch through the keyboard.

Cables

- To daisy chain host adapters and user station, use CAT5/5e/6 UTP straight through cable for TIA/EIA-568B wiring with standard RJ45 connectors. Cables not included

Distances and Resolutions for CAT5/5e/6 Cables

Cable	Distance (feet)	Maximum Resolution
CAT5/CAT5e (UTP)	1000	1024x768 at 60Hz
	700	1280x1024 at 60Hz
	500	1600x1200 at 60Hz
	400	1920x1440 at 60Hz
CAT6 (UTP)	800	1024x768 at 60Hz
	600	1280x1024 at 60Hz
	500	1600x1200 at 60Hz
	350	1920x1440 at 60Hz

User Station and Host Adapter Models

NTI Part #	Platform	Function
PRIMUX-UZR	USB, PS2, SUN, Serial RS232	User Station
HA-PS2	PS/2	Host Adapter
HA-USB	USB	Host Adapter
HA-SUN	SUN	Host Adapter
HA-RS	RS232	Host Adapter