KVM SWITCH VIA CAT5

Control up to 64 servers in zero rack space

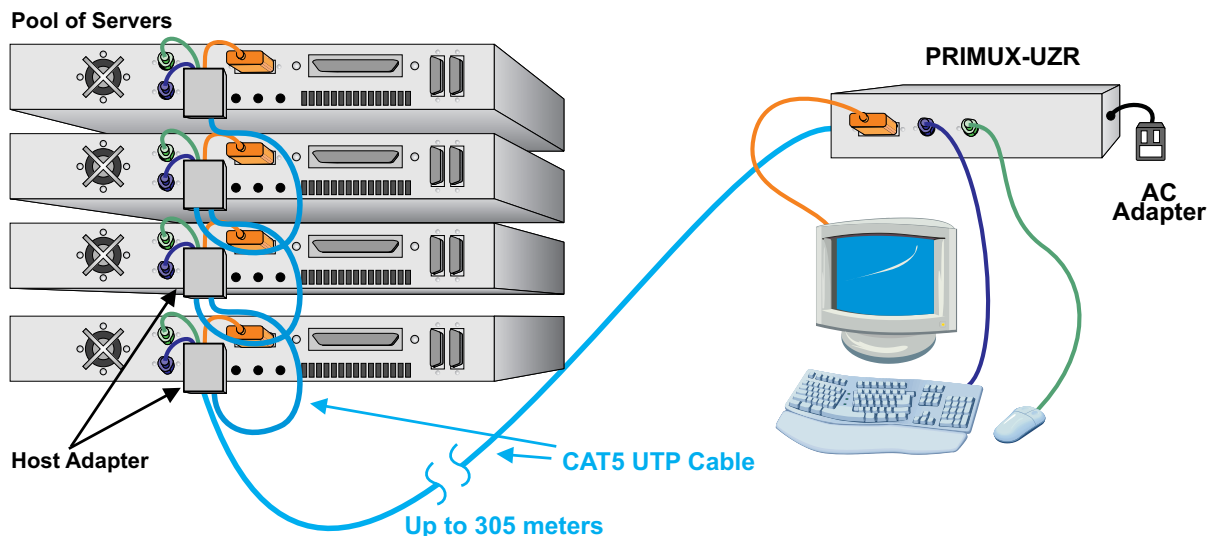**PRIMUX-UZR (Front and Back) and HA-USB Host Adapter**

Features & Applications

The PRIMUX® Zero-U 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 305 meters from each other via CAT5/5e/6 UTP cable.

- A single, inexpensive CAT5/5e/6 UTP cable replaces bulky KVM cables.
- Ideal for hazardous/unsecured environments. User station can be located up to 305 meters from servers.
- Easy to install and use with plug-and-play functionality.
- Provides a simple daisy-chained wiring configuration.
- Hot-swap components with no disruption of server operation.
- Crisp and clear 1024x768 video resolution at 305 meters; higher resolution supported at shorter distances up to 1920x1440 (see resolution chart on page 2).
- Keep-alive keyboard/mouse emulation for flawless operation.

- Interconnect multiple servers at different locations throughout a building. Servers can be the same or different platforms (PS/2 or USB).
- Dedicated microprocessors prevent computers from locking up, ensuring reliable control.
- 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.

Configuration and Cable Illustration

Pool of Servers

PRIMUX-UZR

AC Adapter

Host Adapter

CAT5 UTP Cable

Up to 305 meters

Specifications

User Station

Monitor

- Female 15-pin HD connector.
- A multiscan VGA monitor is required to display the different video outputs from different platforms.
- Maximum 1024x768 video resolution at 305 meters; higher resolutions supported at shorter distances up to 1920x1440.
- Supports Separate and Composite TTL level sync.
- Supports the DDC2B protocol.

Devices

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

Power

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

Regulatory Approvals

- CE, RoHS

Host Adapters

Hosts

- A maximum of 64 host computers can be daisy-chained together. One platform-specific (PS/2, SUN or USB) HA-x host adapter is required for each computer.

  ##### HA-PS2

  - Compatible with any OS supporting PS/2, including RS6000, SGI and HP 9000.
  - Male 15-pin HD/male 6-pin miniDIN connectors.

  ##### HA-USB

  - Compatible with USB-enabled PC, SUN and MAC computers.
  - Male 15-pin HD/male USB Type A connectors.

Power

- Power provided by the host computer.

Regulatory Approvals

- RoHS

Built-In 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/CAT5e and CAT6 Cables

Cable	Distance (meters)	Maximum Resolution
CAT5/CAT5e (UTP)	305	1024x768 at 60Hz
CAT5/CAT5e (UTP)	213	1280x1024 at 60Hz
CAT5/CAT5e (UTP)	152	1600x1200 at 60Hz
CAT5/CAT5e (UTP)	122	1920x1440 at 60Hz
CAT6 (UTP)	244	1024x768 at 60Hz
CAT6 (UTP)	183	1280x1024 at 60Hz
CAT6 (UTP)	152	1600x1200 at 60Hz
CAT6 (UTP)	107	1920x1440 at 60Hz

User Station and Host Adapter Models

NTI Part #	Platform	Function	Size WxDxH (mm)
PRIMUX-UZR	PS/2, SUN or USB	User Station	279.4x279.4x44.4
HA-PS2	PS/2	Host Adapter	53.3x94x25.4
HA-USB	USB	Host Adapter	53.3x94x25.4

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www.networktechinc.com/kvmswitch-cat5.html