

VGA KVM MATRIX SWITCH VIA CAT5

Consolidated control for multi-user, multi-rack server environment up to 305 meters away



PRIMUX-16X64 (Front and Back)

Features & Applications

The PRIMUX® KVM Matrix Switch via CAT5 provides non-blocking access for up to 16 simultaneous users to up to 64 servers. The switch frees up valuable space by eliminating large KVM switchboxes and bulky hard-to-manage coax cables. It is an ideal solution for high-density server environments.

The PRIMUX system consists of three components: Matrix Switch, connects users to servers; Host Adapters, connect to each server; and User Stations, connect to each set of user-station equipment — keyboard, monitor and mouse. The User Stations and Host Adapters can be located as far as 305 meters from each other, and are connected to the matrix switch via CAT5/5e/6 UTP cable.

- Multi-user, multi-platform, multi-rack access.
- Platform-specific host adapters for host connection – PS/2, USB and SUN.
- Ideal for hazardous/unsecured environments. The User Stations can be located up to 305 meters from the servers.
- Inexpensive CAT5/5e/6 UTP cable replaces bulky KVM cables.
- Simple plug-and-play auto-configured installation.
 - Servers are discovered as they are powered up, and can be accessed immediately by authorized users.
- Hot-swap components with no disruption of server operation.
- Supports video resolutions to 1920x1440.
- Automatically adjusts the video quality to compensate for varying lengths of CAT5/5e/6 cable.
- Dedicated microprocessors prevent CPUs from locking up, ensuring reliable control.
- Real time power status of connected servers.
- Provides connection to servers during power up at the BIOS level.
- Command and control provided by OSD of connected User Station.
- Flash upgradeable.

Specifications

Matrix Switch

Connectors

- Female RJ45 input/output connectors.
- Female RJ45 Ethernet connector.
 - 10/100BaseT Ethernet interface.
- Male DB9 connector.
- Female SCSI 68-pin connector.

Power

- 110 or 220 VAC at 50 or 60 Hz via IEC connector.

See pages 58-59 for the PRIMUX User Station specifications.

Host Adapters

Hosts

- One platform-specific (USB + PS/2, SUN) HA-x host adapter is required for each computer.

HA-UNV

- Compatible with PS/2 and USB computers with VGA video.
- One male 15-pin HD, one male 6-pin miniDIN, and one male USB Type A connectors.
 - ♦ Includes a female USB Type A to male 6-pin miniDIN adapter.

HA-SUN

- Compatible with legacy SUN computers with VGA video.
- One male 15-pin HD and one male 8-pin miniDIN connectors



HA-UNV

VGA KVM MATRIX SWITCH VIA CAT5

Consolidated control for multi-user, multi-rack server environment up to 305 meters away

Control Methods

On Screen Display

- Use keyboard or mouse to operate the switch from menus superimposed onto the monitor.
- Displays the platform, name, and power status of the connected servers.
- Allows color skew and video compensation fine tuning for optimal video quality.
- Locate and select servers by name.
- Names can be up to 16 characters long.
- Help Screens assist users with OSD.
- Modify the size and position of the OSD.
- OS- and software-independent.
- Various administrator configuration features, including users, servers and user stations.

Security

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

Modes of Operation

- **Normal** – a user connected to a host.
- **Scan** – user is subsequently connected to hosts from a list.
- **Sharing** – the administrator can select for each host a sharing attribute, which defines multiple user access to the host.
 - **None (not shared)** – one user is connected to the host and controls it. No other user may select nor control that host.
 - **Limited (video shared)** – one user is connected to and controls the host. Other users may select and see the video output from the host, but not control the host.
 - **Full (shared)** – a host may be selected by many users; the host is still controlled by one user, but its control may be given to any other user after an inactivity timeout (share idle time).

RS232

- Configuration can be done through the serial port.
- Baud rate: 115200.

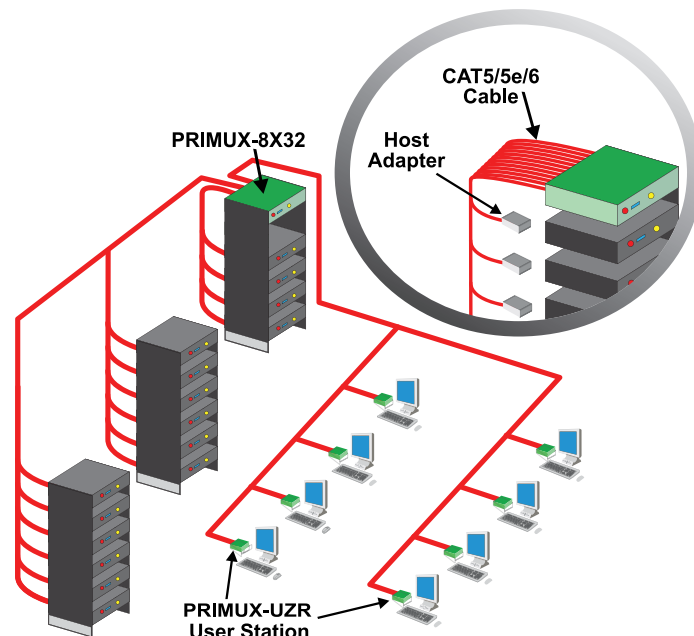
Ethernet Control

- Configuration can be done over the Internet via Telnet.
- 10/100 BaseT Ethernet interface.

Cables

- Use CAT5/5e/6 UTP cable to connect Host Adapters and User Stations to the switch.
- Cables not included.

Configuration and Cable Illustration



Distances and Resolutions for CAT5/CAT5e and CAT6 Cables

Cable	Distance (meters)	Resolution
CAT5/CAT5e (UTP)	305	1024x768 at 60Hz
	700	1280x1024 at 60Hz
	152	1600x1200 at 60Hz
	122	1920x1440 at 60Hz
CAT6 (UTP)	244	1024x768 at 60Hz
	183	1280x1024 at 60Hz
	152	1600x1200 at 60Hz
	107	1920x1440 at 60Hz

KVM Matrix Switch via CAT5 Models

NTI Part #	# of Users	# of CPUs	Rack Units	Size WxDxH (mm)
PRIMUX-8x32	8	32	1RU	483x305x45
PRIMUX-16x64	16	64	2RU	483x305x89

User Station

NTI Part #	Description	Size WxDxH (mm)
PRIMUX-UZR	User Station	279x279x45

Host Adapter Models

NTI Part #	Platform	Size WxDxH (mm)
HA-UNV	USB + PS/2	38x76x20
HA-SUN	SUN	53x94x25



330.562.1999
Worldwide fax



sales@ntigo.com



www.networktechinc.com

© 2009 NTI
All rights reserved

PRIMUX®

www.networktechinc.com/kvm-switch-cat5-matrix.html