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.
- Dedicated microprocessors prevent computers from locking up.
- Supports crisp and clear resolutions to 1920x1440.
- Keep-alive keyboard/mouse emulation for flawless operation.
- Supports international keyboard layouts.
- User keyboard and mouse must be of the same platform – both USB or PS/2.
- Supports Separate and Composite TTL level sync.
- Supports the DDC2B protocol.
- A multiscan VGA monitor is required to display the different video outputs from different platforms.
- Supports international keyboard layouts.
- Supports Separate and Composite TTL level sync.
- 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.

**Specifications**

**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 (PRIMUX-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
- TAA compliant

**Warranty**

- Two years

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**User Station**

- 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.
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**Host Adapters**

- 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
- TAA compliant

**Warranty**

- Two years

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

Control up to 64 servers in zero rack space

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

<table>
<thead>
<tr>
<th>Cable</th>
<th>Distance (feet)</th>
<th>Maximum Resolution</th>
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</thead>
<tbody>
<tr>
<td>CAT5/CAT5e (UTP)</td>
<td>1000</td>
<td>1024x768 at 60Hz</td>
</tr>
<tr>
<td></td>
<td>700</td>
<td>1280x1024 at 60Hz</td>
</tr>
<tr>
<td></td>
<td>500</td>
<td>1600x1200 at 60Hz</td>
</tr>
<tr>
<td></td>
<td>400</td>
<td>1920x1440 at 60Hz</td>
</tr>
<tr>
<td>CAT6 (UTP)</td>
<td>800</td>
<td>1024x768 at 60Hz</td>
</tr>
<tr>
<td></td>
<td>600</td>
<td>1280x1024 at 60Hz</td>
</tr>
<tr>
<td></td>
<td>500</td>
<td>1600x1200 at 60Hz</td>
</tr>
<tr>
<td></td>
<td>350</td>
<td>1920x1440 at 60Hz</td>
</tr>
</tbody>
</table>

User Station and Host Adapter Models

<table>
<thead>
<tr>
<th>NTI Part #</th>
<th>Platform</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRIMUX-UZR</td>
<td>USB, PS2, SUN, Serial RS232</td>
<td>User Station</td>
</tr>
<tr>
<td>HA-PS2</td>
<td>PS/2</td>
<td>Host Adapter</td>
</tr>
<tr>
<td>HA-USB</td>
<td>USB</td>
<td>Host Adapter</td>
</tr>
<tr>
<td>HA-SUN</td>
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<td>Host Adapter</td>
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