Manage up to 32 IT devices - routers, switches, hubs, etc.

- Eliminates the need to connect each device to an ASCII terminal or PC.
- Connect up to 32 devices with different baud rates, parity, and character length. Each switch also has one RJ45 connector for a local terminal.
- Provides out-of-band access to network devices (servers, routers, network switches, and any other network devices allowing console operation using RS232).
- Power cycle without halting SUN host computer.
  - No inadvertent “break” signals are generated to cause unintentional rebooting of SUN computers.
- Dual power option creates a redundant power system protecting the console switch from any power failure issues.
- High quality, rugged steel construction with durable powder coat finish.
- Command Line Interface via Telnet for advanced management functions.
- Connects to console serial ports using standard CAT5/5e/6 cables and cable adapters.
  - Maximum cable length is 100 feet (30 meters).
- Two operator levels (administrator and user).
- Switching is simplified with programmable device names and menu-driven device selection.
  - All configuration parameters are stored in non-volatile EEPROM.
- Built-in data buffers save the most recent RS232 console output from each connected device, which simplifies troubleshooting failures.
- Local commands can be directed via VT52, VT100, ANSI serial console, a PC with a terminal emulation program, or any compliant terminal.
- Gain access to servers without interrupting service to end-users; maintain optimal up-time.
- Manage server farms or data centers via serial ports and standard external modems or through optional Ethernet interface using Telnet or Web interface.
- 1RU rackmount case is standard.

Specifications

Compatibility

- Supports most devices with an RS232 serial port.

Serial Interface

- 4, 8, 16, 24 or 32 RJ45 EIA-232 serial port connectors.
- One RJ45 EIA-232 console port connector.
- Flow control: Hardware (RTS/CTS), Software (XON, XOFF), both or none.
- Signals: TXD, RXD, DSR, DTR, CTS, RTS, DCD
- Data transfer rate: up to 115.2K baud between two ports.
  - Two ports can be at different baud rates.

Network Interface (Optional)

- 10/100 BaseT Ethernet port with RJ45 connector.
- Supports static and dynamic IP addresses.

Environmental

- Operating temperature: 32 - 100°F (0 - 38°C).
- Storage temperature: -20 - 140°F (-30 - 60°C).
- Operating and Storage Relative Humidity: 17 - 90% non-condensing RH.

Power

- Input Voltage: AC 100 - 240V, 50 - 60 Hz
- Optional dual power available on all models.

Adapters

- Four cable adapters are included with the SERIMUX.
  - DB-25F to RJ45 console adapter.
  - DB-9F to RJ45 console adapter.
  - DB-25M to RJ45 modem adapter.
  - DB-25M to RJ45 console adapter.

Additional adapters available.

Protocols (For Optional Ethernet Control)

- HTTP, HTTPS, ICMP, DHCP.
- TCP/IP, SSL, Telnet.

Regulatory Approvals

- CE, RoHS

Warranty

- Two years
Console Serial Port Switch with Ethernet Control Option

SERIMUX®

Manage up to 32 IT devices - routers, switches, hubs, etc.

Specifications (continued)

### Power Consumption

<table>
<thead>
<tr>
<th>NTI Part #</th>
<th>Power (W)</th>
<th>NTI Part #</th>
<th>Power (W)</th>
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<tbody>
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<td>SERIMUX-CS-4</td>
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<td>SERIMUX-CS-24</td>
<td>10</td>
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<tr>
<td>SERIMUX-CS-8</td>
<td>5</td>
<td>SERIMUX-CS-32</td>
<td>10</td>
</tr>
<tr>
<td>SERIMUX-CS-16</td>
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### MTBF

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<th>NTI Part #</th>
<th>Hours</th>
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<tbody>
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<td>SERIMUX-CS-32DP</td>
<td>48,143</td>
<td>SERIMUX-CS-32EDP</td>
<td>43,304</td>
</tr>
</tbody>
</table>

### Distances and Baud Rates for CAT5/5e/6 Cables

<table>
<thead>
<tr>
<th>Distances (feet)</th>
<th>Speed (Baud)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>38.4</td>
</tr>
<tr>
<td>500</td>
<td>57.6</td>
</tr>
<tr>
<td>250</td>
<td>115.2</td>
</tr>
</tbody>
</table>

### Configuration and Cable Illustration

* Use either DB9F-RJ45F or DB25F-RJ45F adapter dependent upon the hardware of the device to be attached
Console Serial Port Switch with Ethernet Control Option
SERIMUX®

Manage up to 32 IT devices - routers, switches, hubs, etc.

**Adapters**

<table>
<thead>
<tr>
<th>Adapter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DB9F-RJ45F</td>
<td>Adapter to connect DB-9M serial ports to the SERIMUX.</td>
</tr>
<tr>
<td>DB9F-RJ45F-T</td>
<td>Adapter to connect DB-25F serial ports to the SERIMUX.</td>
</tr>
<tr>
<td>DB25F-RJ45F</td>
<td>Adapter to connect DB-25M serial ports to the SERIMUX.</td>
</tr>
<tr>
<td>DB25M-RJ45F-C</td>
<td>Adapter to connect a modem to the SERIMUX.</td>
</tr>
<tr>
<td>RJ45MF-RS232-CO</td>
<td>Serial RS232 Crossover using RJ45 connectors (Male to Female)</td>
</tr>
<tr>
<td>RJ45MF-RS232-CO</td>
<td>Connects: (DTE to DTE) or (DCE to DCE)</td>
</tr>
<tr>
<td>RJ45MF-RS232-CO</td>
<td>8P8C</td>
</tr>
</tbody>
</table>

**Built-In Control Methods**

- Front panel keypad.
  - Secured by a user-defined numeric password.
- Menu-driven integrated software via serial terminal console.
- Optional Ethernet Control.
  - Configuration and control can be done over the Internet via Web Interface or Telnet (view product demo).
  - To connect to the SERIMUX ports via the web interface, install any version of Java 7. Note: this feature is not compatible with Java 8.

**Command Line Interface**

- Remote administration and maintenance of the SERIMUX Console Serial Port Switch.
- Execute frequently performed configuration tasks through script files.
- Save the configuration of the switch, and perform configuration restoration if needed.
- Restore default configuration parameters to specific parts of the switch, while leaving other custom configuration parameters intact.

**Administrative Controls**

- View and/or modify port parameters.
- View and/or modify user passwords and parameters.
- Restore default configuration parameters.
- Connect or disconnect port connections.
- Change/disconnect users, administrators, passwords, etc.
- Initiate modem connection to local ports.
- Inspect buffered data.
- View/delete port-buffer (data-log) contents.
- User passwords become “invisible” while viewing the buffers.

**Cables**

- Use CAT5, CAT5e or CAT6 UTP straight through cable for TIA/EIA-568B wiring terminated with standard RJ45 connectors.
- Cables not included.

**Screenshot of the Command Line Interface**
Console Serial Port Switch with Ethernet Control Option
SERIMUX®

Manage up to 32 IT devices - routers, switches, hubs, etc.

Ordering Specifications

**Console Serial Port Switch**

This example explains the SERIMUX switch part number by breaking it down into the available options. When ordering, choose the options that you require.

```
SERIMUX-CS-x-E-DP
```

**Console Serial Port Switch Models**

<table>
<thead>
<tr>
<th>NTI Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SERIMUX-CS-4</td>
<td>4-port console serial port switch</td>
</tr>
<tr>
<td>SERIMUX-CS-8</td>
<td>8-port console serial port switch</td>
</tr>
<tr>
<td>SERIMUX-CS-16</td>
<td>16-port console serial port switch</td>
</tr>
<tr>
<td>SERIMUX-CS-24</td>
<td>24-port console serial port switch</td>
</tr>
<tr>
<td>SERIMUX-CS-32</td>
<td>32-port console serial port switch</td>
</tr>
</tbody>
</table>

*Screenshot of the Web server interface*