- Operates on a hardened Linux system.
- Connect up to 32 devices with different baud rates, parity, and character length. Each switch also has one RJ45 connector for a local terminal.
- Eliminates the need to connect each device to an ASCII terminal or PC.
 Provides out-of-band access to network devices (servers, routers,
- Provides out-of-band access to network devices (servers, routers, network switches, and any other network devices allowing console operation using RS232).
- Connects to console serial ports using standard CAT5/5e/6 cables and cable adapters.
 - Maximum cable length is 1000 feet (305 meters).
- Dual Ethernet and optional dual power provide redundant connectivity and power.
 - Dual power option creates a redundant power system protecting the console switch from any power failure issues.
- USB port provides expanded logging storage, configuration export and additional functionality.
- High quality, rugged steel construction with durable powder coat finish.
- Gain access to servers without interrupting service to end-users; maintain optimal up-time.
- Monitor environmental conditions.
 - Supports two sensors, including: temperature/humidity and water detection.
 - When a sensor goes out of range of a configurable threshold, the system will notify you via email, LEDs, web page, and network management (SNMP).
- Power cycle without halting SUN host computer.
 - No inadvertent "break" signals are generated to cause unintentional rebooting of SUN computers.
- Powerful diagnostic and event management features (data capture, notification and scripting) assist in the quick location of the source of equipment failures and minimize downtime.
- Enhanced security features to protect the system Secure Shell (SSH v2), individual port authentication, HTTPS.
- Switching is simplified with programmable device names and menudriven device selection.
 - All configuration parameters are stored in non-volatile memory.
- Configuration parameters can be imported from USB Flash drive.
 Firmware upgradeable "in-field" through console port, Ethernet, or an
- attached USB Flash drive. IRU case is standard. Includes rack mounting kit.



SERIMUX-S-16DP (Front & Back)

• Linux Inside

• IPV6 Compatible

The SERIMUX® Secure SSH Console Serial Switch delivers secure management of up to 32 serial devices via the internet, TCP/IP network, or dial-up modem connections. It combines the advanced security of Secure Shell v2 with unlimited access to remote network management.

Control Methods

- HTTP/HTTPS Web Interface, Telnet/SSH, System console.
 - Supports up to 32 users.
- Two user levers: User and Administrator.

LED Indicators

- Full featured status display via LED indicators:
 - CPU power.
 - Console device activity.
 - Ethernet connection/speed/activity.
 - Each Serial Port device activity.
 - "INT ALERT" internal sensor goes out of range of a configurable threshold.
 - "EXT ALERT" external sensor goes out of range of a configurable threshold.

Security

- Local DB authentication
- TLS/SSL secure communications
- SSH v1, SSH v2, SSL
- AES, 3DES/DES, Blowfish, Twofish, RSA, EDH-RSA, Arcfour Encryptions

Specifications

Compatibility

- Supports most devices with an RS232 serial port
- Supports VT terminals

Network Interface

- Two 10/100 Base-T Ethernet ports with RJ45 Ethernet connector
- Supports both static and dynamic IP addresses

NETWORK TECHNOLOGIES

INCORPORATED

RJ45 Sensor Ports

 Two RJ45 modular jacks for connecting NTI temperature/humidity and liquid detection sensors.

Serial Interface

- 8/16/24/32 RJ45 EIA-232 serial port connectors
- One RJ45 EIA-232 console port connector
- Each individual serial port is fully configurable-
 - All industry-standard baud rates ranging from 50 up to 115.2kbps
 - RTS/CTS, Xon/Xoff or both handshaking schemes
 - Variable character widths- 5, 6, 7, or 8 bits
 - Stop bits 1 or 2, as well as Parity- Odd, Even and None
- Flow Control:
 - Hardware RTS/CTS
 - Software XON/XOFF
- Signals: RS232 CTS, DSR, RXD, GND, DCD, TXD, DTR, RTS

330.562.1999

Worldwide fax

- Modem control: DTR/DSR and RTS/CTS
 Data transfer rate: up to 115 2K baud betw
 - Data transfer rate: up to 115.2K baud between two ports
 - Two ports can be at different baud rates

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330.562.7070

International calls

1

Specifications (continued)

Power

- Input Voltage: AC 100 to 240 V, 50 to 60 Hz (Country-specific power supply cable included.)
- Optional dual AC power available on all models.

| Power Consumption | | | | | |
|-------------------|-----------|--------------|-----------|--|--|
| NTI Part # | Power (W) | NTI Part # | Power (W) | | |
| SERIMUX-S-8 | 10 | SERIMUX-S-24 | 15 | | |
| SERIMUX-S-16 | 15 | SERIMUX-S-32 | 15 | | |

Adapters

- Four cable adapters are included with the SERIMUX
 - Male DB-25F to female RJ45
 - Female DB-9F to female RJ45
 - Female DB-25M to female RJ45
 - Male DB-25M to female RJ45
- Additional adapters can be purchased.

Protocols

- SSH V2, Telnet
- IPV4, IPV6
- TCP/IP, TFTP, DHCP, ICMP, UDP, ARP
- HTTP, HTTPS, SMTP, SNMP V1/V2c, Syslog, SNTP
- IPMI v2, RMCP
- Alerts are sent using email, and/or SNMP traps when any monitored environmental condition exceeds a user-specified range.
 - Alerts are posted in message log, which is accessible through Web user interface.
 - Sends notifications of alerts to a maximum of 17 email addresses, and/or SNMP addresses. The users can configure the schedule when they will be alerted.

Internal Sensors

- Temperature:
 - Applications from 32 to $104^{\circ}F$ (0 to $40^{\circ}C$).
 - Accurate to within $\pm 1.35^{\circ}$ F ($\pm 0.75^{\circ}$ C).
- Fan:
 - Ability to monitor internal fan speed (24- and 32-port models only)

Memory

- 32 MB Flash memory
- Female USB 2.0 Type A connector for storage devices

Logging & Buffering

- System log, event-log of user activity and on-line data buffering
- Data-logging with date and time-stamp, locally
- The log can be downloaded as a tab-delimited plain text file and/or sent to an external syslog server.

Dimensions:

- 8- and 16-port switches WxDxH (in):
 - 16.20x9.00x1.75 (without supplied rack ears kit)
 - 19x9.00x1.75(with supplied rack ears kit)
- 24- and 32-port switches WxDxH (in):
 - 17.40x10.00x1.75 (without supplied rack ears kit)
 - 19x10.00x1.75 (with supplied rack ears kit)

Regulatory Approvals

■ CE, RoHS

Environmental

- Operating temperature: 32 to 104°F (0 to 40°C)
- Storage temperature: -20 to 140°F (-30 to 60°C)
- Operating and Storage Relative Humidity: 5 to 90% non-condensing RH

Warranty

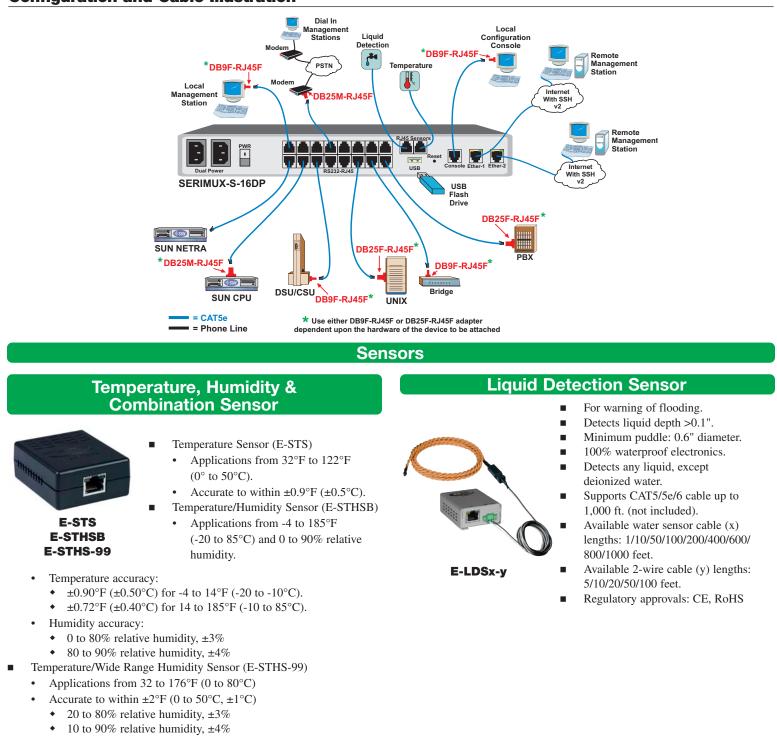
Two years

| MTBF | | | | | | |
|----------------|---------|----------------|--------|--|--|--|
| NTI Part # | Hours | NTI Part # | Hours | | | |
| SERIMUX-S-8 | 43,306 | SERIMUX-S-24 | 42,980 | | | |
| SERIMUX-S-8DP | 108,371 | SERIMUX-S-24DP | 91,754 | | | |
| SERIMUX-S-16 | 44,783 | SERIMUX-S-32 | 42,004 | | | |
| SERIMUX-S-16DP | 100,384 | SERIMUX-32DP | 87,420 | | | |



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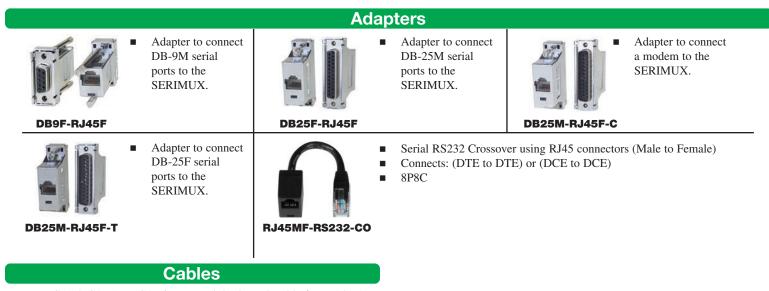
Configuration and Cable Illustration



- 0 to 99% relative humidity, ±5%
- RJ45 connector
- Supports CAT5/5e/6 cable up to 1,000 ft (not included).
- Regulatory approvals: CE, RoHS



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- Use CAT5, CAT5e or CAT6 UTP straight through cable for TIA/EIA-568B wiring terminated with standard RJ45 connectors.
- One 6-foot CAT5 cable included.

Ordering Specifications

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

| Blank = I | AC pow | er |
|-----------|--------|----|
| | | |

| Secure SSH Console Switch with Environment Monitoring Models | | | | | |
|---|---------------|--|---------------|---|--|
| NTI Part# | # of Ports | Desktop Size (WxDxH) | Rack Units | Rack Size (WxDxH) | |
| SERIMUX-S-8 | 8 | 16.2x9x1.75 (without supplied rackmount kit) | 1RU | 19x9x1.75 (with supplied rackmount kit) | |
| SERIMUX-S-16 | 16 | 16.2x9x1.75 (without supplied rackmount kit) | 1RU | 19x9x1.75 (with supplied rackmount kit) | |
| SERIMUX-S-24 | 24 | 17x10.1x1.75 (without supplied rackmount kit) | 1RU | 19x10.1x1.75 (with supplied rackmount kit) | |
| SERIMUX-S-32 | 32 | 17x10.1x1.75 (without supplied rackmount kit) | 1RU | 19x10.1x1.75 (with supplied rackmount kit) | |



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