SSH CONSOLE SWITCH WITH ENVIRONMENTAL MONITORING

Securely control up to 32 RS232 devices via the Internet



Linux Inside **IPV6 Compatible**

SERIMUX-S-16DP (Front and Back)

Features & Applications

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.

- Operates on an 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, 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 1,000 feet.
- Enhanced security features to protect the system Secure Shell (SSH v2), individual port authentication, HTTPS.
- Dual Ethernet and optional dual power provide redundant connectivity and power.
- 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.
- USB port provides expanded logging storage, configuration export and additional functionality.
- Switching is simplified with programmable device names and menu-driven device selection.
 - All configuration parameters are stored in non-volatile memory.
 - Import configuration parameters from USB Flash drive.
- Firmware upgradeable "in-field" through console port, Ethernet, or an attached USB Flash drive.

Internet With SSF

PBX

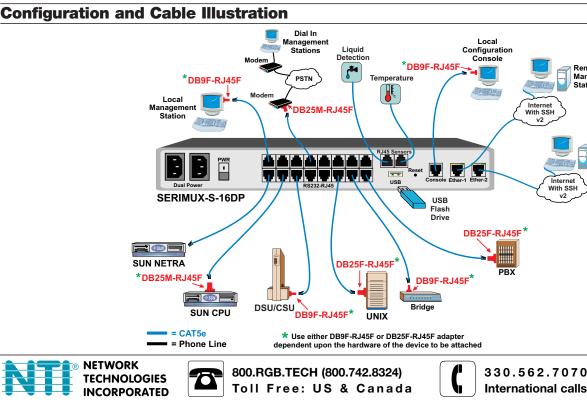
With SSH ر v2

Remote Management

Station

Remote Management

Station



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| Specific | | | | |
|--|--|-------------------|----------------------------|------------------|
| ompatibility | Protocols | | | |
| Supports most devices with an RS232 serial port. Supports any VT type terminal. erial Interface Female RJ45 EIA-232 serial port connectors. One female RJ45 EIA-232 console port connector. | SSH V2, Telnet IPV4, IPV6 TCP/IP, TFTP, DHCP, ICMP, UDP, ARP HTTP, HTTPS, SMTP, SNMP V1/V2c, Syslog, SNTP IPMI v2, RMCP | | | |
| Each individual serial port is fully configurable. | 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. Memory | | | |
| Data transfer rate: industry-standard baud rates ranging from 50 up to 115.2kbps. Two ports can be at different baud rates. Flow control: Hardware (RTS/CTS), Software (XON, XOFF), both or none. Data format: 5, 6, 7 or 8 data bits with or without parity, 1 or 2 stop bits. Signals: RS232 CTS, DSR, RXD, GND, DCD, TXD, DTR, RTS Modem control: DTR/DSR and RTS/CTS | | | | |
| letwork Interface | 32MB Flash memor | • | | |
| | Female USB 2.0 Type A connector for storage devices. | | | |
| Two 10/100 Base-T Ethernet ports with RJ45 Ethernet connector Supports both static and dynamic IP addresses | Logging & Buffering System log, event-log of user activity and on-line data buffering. | | | |
| Input Voltage: AC 100 to 240 V, 50 to 60 Hz Optional 48 VDC power Optional dual AC power or dual DC power available on all models | 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. Regulatory Approvals CE PaUS | | | |
| Two RJ45 modular jacks for connecting NTI temperature, humidity, | CE, RoHS Environmental | | | |
| temperature/humidity, and liquid detection sensors. | | | | |
| nternal Temperature Sensor | Operating temperature Storage temperature | | | |
| Applications from 32° F to 104° F (0°C to 40° C). Accurate to within $\pm 1.35^{\circ}$ F ($\pm 0.75^{\circ}$ C). | Storage temperature: -20°F to 140°F (-30°C to 60°C) Operating and Storage Relative Humidity: 17 to 90% non-condensing RH | | | |
| Control Methods | | МТЕ | 3F | |
| Control Methods | NTI Part # | Hours | NTI Part # | Hours |
| HTTP/HTTPS Web Interface, Telnet/SSH, System console. | SERIMUX-4 | 46,899 | SERIMUX-16-48V | 33,524 |
| Supports up to 32 users. | SERIMUX-4DP | 111,676 | SERIMUX-16-48VDP | 100,38 |
| Two user levers: User and Administrator. | SERIMUX-4-48V SERIMUX-4-48VDP | 34,695 111,677 | SERIMUX-24 SERIMUX-24DP | 42,980 91,754 |
| ED Indicators | SERIMUX-8 | 43,306 | SERIMUX-24-48V | 32,503 |
| Full featured status display via LED indicators: | SERIMUX-8DP | 108,371 | SERIMUX-24-48VDP | 91,755 |
| • CPU – power. | SERIMUX-8-48V | 34,370 | SERIMUX-32 | 42,004 |
| • Console – device activity. | SERIMUX-8-48VDP | 108,372 | SERIMUX-32DP | 87,420 |
| • Ethernet – connection/speed/activity. | SERIMUX-16 | 44,783 | SERIMUX-32-48V | 31,942 |
| • Each Serial Port – device activity. | SERIMUX-16DP | 100,384 | SERIMUX-32-48VDP | 87,421 |
| "INT ALERT" – internal sensor goes out of range of a configurable threshold. | Security | | | |
| "EXT ALERT" – external sensor goes out of range of a configurable threshold. | | | | |

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









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Cables

- 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.

Adapters

Four cable adapters are included with the SERIMUX-S-x.

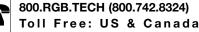
(with supplied rackmount kit)

- Male DB-25 to female RJ45 console adapter.
- Male DB-25 to female RJ45 modem adapter.
- Female DB-9 to female RJ45 console adapter.
- Female DB-25 to female RJ45 console adapter.
- Additional adapters can be purchased.



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(without supplied rackmount kit)

