

SD4000 Device Servers



Secure Device Networking

- 2 and 8 Port Models
- Software Selectable Serial Ports
- Open Source Linux Access

Applications

- ◆ General data acquisition applications
- ◆ Central control of remote PC appliances
- ◆ Remotely turn on, off and reboot equipment
- ◆ Security and access control systems
- ◆ Industrial and building automation
- ◆ Network and power management
- ◆ Medical monitoring automation
- ◆ Remote energy metering
- ◆ Secure data acquisition
- ◆ Retail and point of sale

Features and Benefits

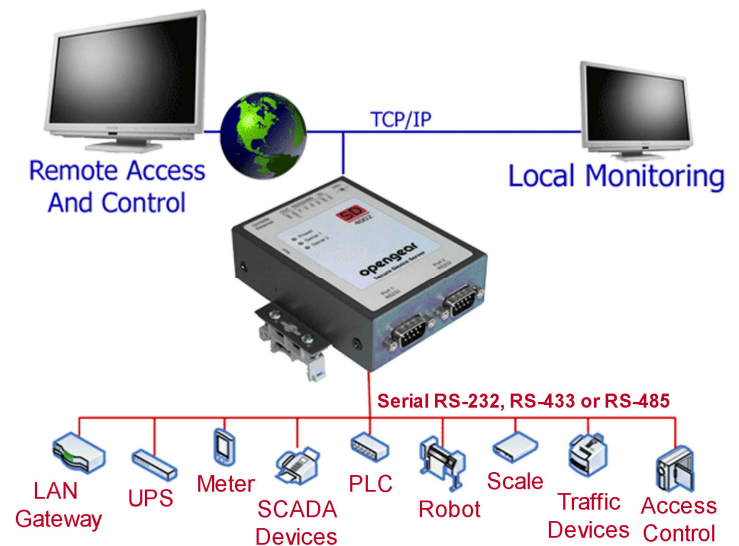
- ◆ Securely LAN Enable Serial Devices
- ◆ Centrally access distributed PCs and smart appliances with X, VNC or RDP
- ◆ Secure remote browser control of devices with SSH tunneled HTTP and HTTPS connection
- ◆ Monitor and control RS-232/422/485
- ◆ Powerful security support, SSH, SSL
- ◆ COM port/TTY redirection from Windows, Linux and UNIX
- ◆ Rock solid stability - robust Linux software
- ◆ User scripting with full Linux kernel access
- ◆ Automated alerts and alarm management
- ◆ Local and remote data logging
- ◆ Simple configuration for easy installation

Secure Industrial Networking

The SD4000 device server enables users to securely connect, manage and control RS232/422/485 serial devices from anywhere over ethernet or the internet. The SD4000 provides fast, secure and reliable local and remote connectivity to serial ports on meters, scanners, access control, sensors, PLC's and SCADA equipment. The compact size of the SD4000 makes it the ideal choice for connecting RS232/422/485 serial devices to the network or to each other with its serial tunneling capabilities.

Secure Device Monitoring and Control

The SD4000 device server has all the advanced security features that provide peace of mind when monitoring and controlling high value industrial equipment. All communications can be logged locally or remotely and configured to trigger emails or other alerts that can be set in response to defined events. The SD4000 also provides a selection of filtering and access logging facilities that can be archived off-line. The simple web browser interface allows the user to easily configure the unit, set security levels and access the ports. For custom applications, users can interface directly with the Linux prompt enabling them to write custom scripts and configurations.



Optimized for Networks

The SD4000 is built on open source standards that utilize the strength, security and the broad manageability features of Linux. The open software technology is robust, reliable and optimized specifically for secure device connectivity. The SD4000 couples this high quality software with a deeply integrated hardware design built on powerful ARM-based System on Chip technology with a low component count. The result is higher reliability, lower power consumption and leading network and cryptographic performance. The bottom line is the SD4000 leads on features, performance, reliability and price.

Control Serial Port Connected Devices

- Telnet/SSH/Raw TCP connect
- COM port redirection software
- RFC 2217 -Telnet Com Port Control
- Serial port interconnect over IP
- Serial over IP access by TCP port
- Port monitoring triggers and alerts
- Offline data logging (Syslog, NFS, CIFS)
- Online data buffering
- Multiple users per port (with port sniffing)
- RDP over serial support
- Break over SSH support

Control Network Connected Devices

- Secure SSH tunneling and NAT port redirection
- Secure RDP/VNC/X access to Windows /Linux/Sun
- Secure HTTP/HTTPS to browser controlled appliances
- Secure Telnet /SSH access
- Extensible to support custom services /ports
- Configurable point-n-click SDTConnector client
- User access limited by host, and by SDT service
- Unlimited number of LAN computers/appliances
- Unlimited number of connections per SSH session

Security and Authentication

- Secure Shell (SSH V2)
- TACACS+ , RADIUS and LDAP authentication
- PAP/CHAP authentication (dial up)
- Per port user access lists
- Dial back support
- Local authentication
- System event syslog
- IP forwarding support and IP packet filtering

SD System Management

- Secure Web management (HTTPS)
- Local browser management (HTTP)
- Command Line interface (Linux Shell)
- ARP IP assignment
- SNMP

Accessibility

- Local Ethernet or remote Internet
- Dial-up modem or local serial port access

Other Protocols Supported

- DHCP for dynamic IP assignment
- NTP for time synchronization
- PPP for dial up access

Upgrades

- Flash upgradeable - free from online FTP site
- FTP, TFTP client for file transfer

Operating System

- Linux - Source code access enables custom configuration

Models

- SD4002: 2 port unit, 10 concurrent SSH tunnels
- SD4008: 8 port unit, 10 concurrent SSH tunnels

Technical Specifications

Ports

SD4002: 1DB9 RS-232 and 1DB9/connector block RS-232/422/485 (software selectable) serial port (2400 to 230,400bps. Surge protected)
SD4008: Eight RJ-45 RS-232/422/485 (software selectable) serial ports (2400 to 230,400bps, Surge protected) and one DB-9 RS-232 local / modem port (2400 to 115,200 bps)
Both SD4002 and SD4008: 1 RJ-45 10/100 Ethernet port

Cables

RJ-45 CAT5 cables (6 ft)
RJ-45 to DB-9 adapters (straight & cross-over)

Power

SD4002: External +9V to +48V DC supply
Optional 12VDC wall mount adapter 100-240V AC, 50/60 Hz
SD4008: Includes 5VDC 100-240V AC adaptor, 50/60 Hz
Optionally use external -48V, +5V or +48VDC supply
Power consumption for SD4002 and SD4008 less than 20W

Dimensions

SD4002: 3.9 x 2.8 x 1.0 in (10 x 7.2 x 2.5 cm) Wall mount or DIN mount kit
SD4008: 8.2 x 4.9 x 1.2 in (20.8 x 12.6 x 4.5 cm) Desktop or wall mount

Environmental

Ambient operating temperature: 5°C to 50°C (41°F to 122°F)
Non operating storage temp.: -30°C to +60°C (-20°F to 140°F)
Hardened device operating temperature: -35°C to 70°C
Humidity 5% to 90%

Regulatory

FCC Part 15 A UL 1950
CE (EN55022 A, EN55024, EN60950)
TUV, C-Tick, ROHS

CPU

166MHz ARM-based System on Chip (Micrel KS8695P)

Memory

16MB SDRAM 8MB Flash



Ordering Details:

USA	UK	EU	JP	AU	Warranty
SD4002-US	SD4002-UK	SD4002-EU	SD4002-JP	SD4002-AU	1 Year
SD4008-US	SD4008-UK	SD4008-EU	SD4008-JP	SD4008-AU	1 Year

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