IOLAN SDS

Secure Serial to Ethernet Device Servers

Perle
Essential Network Connectivity

For serial to Ethernet applications, the IOLAN SDS is the most advanced series of multi-port device servers available. Delivering the highest performance in a 1U form factor, an IOLAN SDS offers robust security, flexibility and next generation IP technology, ideal for applications that require remote serial device communication, data capture or monitoring. Available in 8 and 16 port sizes, the IOLAN SDS series has the right fit for your serial application needs.

Flexible and Reliable Serial to Ethernet Connections

An IOLAN SDS is capable of pseudo connections to servers via Telnet, Rlogin, UDP or TCP socket based applications to remote devices. Where a server's application needs to access a fixed TTY or COM ports, Perle's TruePort software supplied with each device server performs COM port redirection across IP networks to remote Perle device servers either in encrypted or clear text modes.
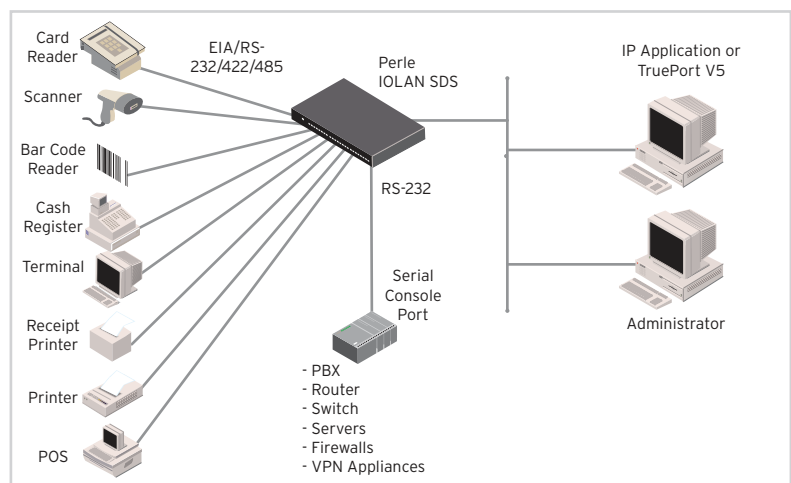
Features and Benefits

- 8 and 16 serial port models

- Software selectable EIA/RS-232/422/485 interface

- AES, 3DES encryption over SSH or SSL sessions

- Next Generation IP support (IPv6) for investment protection and network compatibility

- 10/100/1000 Ethernet support

- 1U rack form factor with flexible front or rear mounting

- COM or TTY port control and management for serial based applications

- Powerful authentication schemes prevent unauthorized access

- Port buffering for data capture and analysis - local, NFS or encrypted NFS

- Event notification via email

- RFC 2217

- Modbus to Modbus TCP

- Software Development Kit

- RoHS and WEEE compliant

- Perle Lifetime warranty for security and peace of mind

Centralized control and management of multiple deployments is maintained through Perle's Device Manager software resulting in maximum uptime for your remote equipment.

Protection against electrostatic discharges and power surges is provided on all IOLAN SDS models with its robust 15Kv ESD protection circuitry enabling organizations to utilize this solution in the field with confidence.

Secure Serial Connectivity

Data can be protected across an IP network through standard encryption tools supported by an IOLAN SDS such as Secure Shell (SSH) and Secure Sockets Layer (SSL). An extensive cipher suite and the ability to operate as an SSL server or SSL client makes the IOLAN SDS the best choice in matching to your security application.

Advanced IP Technology

With support for both Gigabit Ethernet along with Next Generation IP (IPv6), an IOLAN SDS provides organizations with the investment protection today to meet the compatibility needs of networks tomorrow.

Class Leading Support and Warranty

Perle IOLAN SDS secure device servers are backed by the best service and support in the industry including Perle's unique lifetime warranty. Since 1976 Perle has been providing its customers with networking products that have the highest levels of performance, flexibility and quality.

Technical Specifications

Processor
- MPC8349E, 400MHZ

Network/Ethernet
- 1 x 10/100/1000-Base TX

Protocols
- IPv6, IPv4, TCP/IP, Reverse SSH, SSH, SSL, CIDR, RIPV2/MD5, ARP, RARP, UDP, UDP Multicast, ICMP, BOOTP, DHCP, TFTP, SNTP, Telnet, raw, reverse Telnet, LPD, RCP, DNS, WINS, HTTP, HTTPS, SMTP, SNMPV3, PPP, PAP/CHAP, SLIP, CSLIP, Modbus/TCP, Modbus/RTU, Modbus/ASCII

Security and Authentication
- SSHV1 and SSHV2
- SSL V3.0/TLS V1.0, SSL V2.0
- SSL Server and SSL client mode capability
- Encryption: AES (256/192/128), 3DES, DES, Blowfish, CAST128, ARCFOUR(RC4), ARCTWO(RC2)
- Hashing Algorithms: MD5, SHA-1, RIPEMD160, SHA1-96, and MD5-96
- Key exchange: RSA, EDH-RSA, EDH-DSS, ADH
- X.509 Certificate verification: RSA, DSA
- Certificate authority (CA) list
- Local database
- RADIUS Authentication and Accounting
- TACACS+, LDAP, NIS, Kerberos
- RSA SecureID-agent or via RADIUS
- IP Address filtering
- Disable unused daemons

Management
- Web browser or secure web browser via https (SSL/TLS)
- Perle DeviceManager software to manage single or multiple device servers
- CLI – Telnet, SSH, shared console port
- IOLAN+ configuration mode
- SNMP, MIB II, Perle MIB, read and write capabilities
- Event notification via email
- SYSLOG
- Port Buffering – local NFS or 3DES encrypted to NFS server

Serial Port(s)
- Software selectable EIA-232/422/485
- Software selectable EIA-422/485 line termination
- Full modem and hardware flow control
- 50bps to 230Kbps for EIA-232
- up to 230Kbps for EIA-422/485
- 8 or 16 RJ45 connectors
- SUN Break Safe
- Full bidirectional modem support
- 15Kv ESD protection on all signals

Interface Modes
- EIA-232 full duplex
- EIA-422 full duplex
- EIA-485 4 wire, full duplex
- EIA-485 2 wire, half duplex, with echo
- EIA-485 2 wire, half duplex, without echo

Indicators
- Power
- System Ready
- Network Link activity
- Serial: Transmit and Receive data LEDs

Dimensions, Weight
- Dimension (L x W x H)
  26.4 x 43.4 x 4.4 (cm)
  10.38 x 17.1 x 1.75 (in)
  SDS8   3 kg, 6.6 lbs
  SDS16 3.1 kg, 6.8 lbs

Rack mounting brackets included

Power
- 100-240 VAC

Fixed TTY/COM Port Emulation Software
- TruePort

Environmental
- Operating temperature:
  0°C to 55°C, 32°F to 131°F
- Storage temperature:
  -40°C to 66°C, -40°F to 150°F

Approvals
- FCC Part 15A, CE, CAN/CSA 22.2, UL 60950, EN 55022 Class A, EN 55024 Class A

Warranty
- Limited lifetime warranty

Model	Features				Part Number		
	Ethernet	Serial Ports	Interface Type	Serial Connector	USA	Europe	UK
IOLAN SDS8	10/100/1000	8	EIA-232/422/485	RJ45	04030314	04030312	04030311
IOLAN SDS16	10/100/1000	16	EIA-232/422/485	RJ45	04030324	04030322	04030321

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