



For serial to Ethernet applications, the IOLAN STS is the most advanced series of multi-port terminal servers available. Delivering the highest performance in a 1U form factor, an IOLAN STS offers robust security, flexibility and next generation IP technology, ideal for applications that require remote serial device communication, data capture or monitoring. Available in 4, 8, 16 and 24 port sizes, the IOLAN STS series has the right fit for your serial application needs.

Features and Benefits

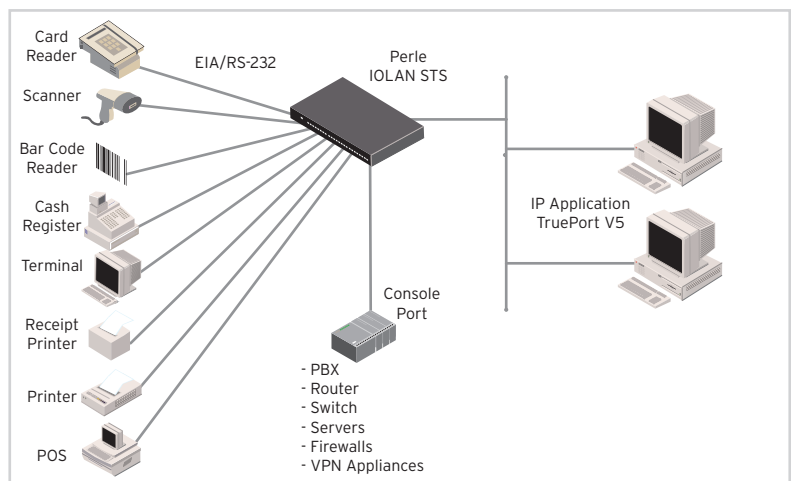
- 4, 8, 16 and 24 EIA/RS-232 port models
- Next Generation IP support (IPv6) for investment protection and network compatibility
- 400 Mhz 32 bit processor
- AES, 3DES encryption over SSH or SSL sessions
- Hardware encryption processor for optimal performance
- 10/100/1000 Ethernet support
- 1U rack form factor with flexible front or rear mounting
- 48 VDC voltage models for telecom applications
- COM or TTY port control and management for serial based applications
- Powerful authentication schemes prevent unauthorized access for console management applications
- Port buffering for data capture and analysis
- 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

Flexible and Reliable Serial to Ethernet Connections

An IOLAN STS is ideal for connecting serial based COM port, UDP or TCP socket based applications to remote devices. Perle's TruePort V5 re-director provides fixed TTY or COM ports to server based applications enabling communication with remote devices connected to Perle device servers either in encrypted or clear text modes. You can also tunnel serial data between devices across an IP network.

Perle's Device Management software provides centralized control and management resulting in maximum uptime for your remote equipment.

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



Secure Serial Connectivity

IOLAN STS device servers enable administrators to securely access remote serial console ports on equipment such as PBX, servers, routers, network storage equipment and security appliances through an IP network. Sensitive information is protected through standard encryption tools such as Secure Shell (SSH) and Secure Sockets Layer (SSL). Access by authorized users is assured via authentication schemes such as RADIUS, TACACS+, LDAP, Kerberos, NIS and RSA Security's SecurID tokens.

Advanced IP Technology

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

Class Leading Support and Warranty

All Perle IOLAN STS models 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

Management Port

- EIA-232 RJ45

Protocols

- IPv6, IPv4, TCP/IP, Reverse SSH, SSH, SSL, CIDR, RIPV2/MD5, ARP, RARP, UDP, UDP Multicast, ICMP, BOOTP, DHCP, TFTP, SNMP, 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 or remote NFS server

Serial Port(s)

- EIA-232
- Full modem and hardware flow control
- 50bps to 230Kbps for EIA-232
- 4, 8, 16 or 24 RJ45 connectors
- SUN Break Safe
- Full bidirectional modem support
- 15Kv ESD protection on all signals

Interface Modes

- EIA-232 full duplex

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)
- STS4 2.8 kg, 6.1 lbs
- STS4 DC 2.7 kg, 5.9 lbs
- STS8 3 kg, 6.6 lbs
- STS8 DC 2.9 kg, 6.3 lbs
- STS16 3.1 kg, 6.8 lbs
- STS16 DC 3 kg, 6.6 lbs
- STS24 3.1 kg, 6.8 lbs

Rack mounting brackets included

Power

- 100-240 VAC AC Models
- 48VDC Models - 36V - 72V

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 | AC | 48VDC | USA | Europe | UK |
| IOLAN STS4 | 10/100/1000 | 4 | EIA-232 | RJ45 | • | | 04030404 | 04030402 | 04030401 |
| IOLAN STS4 DC | 10/100/1000 | 4 | EIA-232 | RJ45 | | • | 04030390 | 04030390 | 04030390 |
| IOLAN STS8 | 10/100/1000 | 8 | EIA-232 | RJ45 | • | | 04030414 | 04030412 | 04030411 |
| IOLAN STS8 DC | 10/100/1000 | 8 | EIA-232 | RJ45 | | • | 04030420 | 04030420 | 04030420 |
| IOLAN STS16 | 10/100/1000 | 16 | EIA-232 | RJ45 | • | | 04030444 | 04030442 | 04030441 |
| IOLAN STS16 DC | 10/100/1000 | 16 | EIA-232 | RJ45 | | • | 04030450 | 04030450 | 04030450 |
| IOLAN STS24 | 10/100/1000 | 24 | EIA-232 | RJ45 | • | | 04030464 | 04030462 | 04030461 |



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