IOLAN DS1

Single Port Device Server

The IOLAN DS1 device server is the best choice for simple serial to ethernet connectivity applications. Delivering a cost effective solution in a compact size, the IOLAN DS1 offers flexibility and advanced IP technology making it ideal for applications that require an efficient way of communicating with serial devices over a network.

Flexible and Reliable Serial to Ethernet Connections

The IOLAN DS1 is ideal for connecting serial-based COM port, UDP or TCP socket based applications to remote devices. Perle's TruePort re-director provides fixed TTY or COM ports to server based applications enabling communication with remote devices connected to Perle device servers. You can also tunnel serial data between devices across an IP network.

Easy to set up and manage, the IOLAN DS1 has a software selectable EIA-232/422/485 interface capability which simplifies setup and eliminates mechanical tampering associated with DIP switch based products. Along with Perle's Device Management software, better centralised control and management is provided resulting in maximum uptime for your remote equipment.

Protection against electrostatic discharges and power surges is provided on the IOLAN DS1 with its robust 15Kv ESD protection circuitry enabling organisations to utilise this solution with confidence.

Advanced IP Technology

The IOLAN DS1 is the most advanced device server on the market. With support for Next Generation IP (IPV6) support, the IOLAN DS1 provides organisations with the investment protection today to meet the compatibility needs of networks tomorrow.

Class Leading Support and Warranty

The Perle IOLAN DS1 is 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.

Features and Benefits

- Universal, software selectable EIA-232/422/485 interface – prevents mechanical tampering in the field
- Next Generation IP support (IPV6) for investment protection and network compatibility
- High performance in a space saving compact size
- Indicators for network and serial interfaces for easy troubleshooting
- DeviceManager software for centralised management and control
- COM or TTY port control and management for serial-based applications
- Power over serial cable models eliminate costs of a separate power installation
- 15Kv ESD protection for continuous and reliable operation
- Desk or wall mountable for convenient installation
- DIN Rail mounting option for Industrial Automation applications
- RFC 2217
- Modbus to Modbus TCP
- Software Development Kit
- RoHS and WEEE compliant
- Perle Lifetime warranty for security and peace of mind
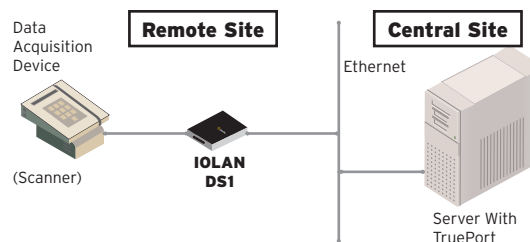
Applications

- Connect serial devices to server based applications over an IP network
- Access and control serial-based Industrial Automation Equipment such as PLC's or SCADA/RTU
- Manage remote serial console ports over an IP network
- Virtual modem capability for modem-based applications

Technical Specifications

Processor
- MPC852T, 66 Mhz, 87MIPS

Serial Port
- software selectable EIA-232/422/485
- Full modem and hardware flow control
- 50bps to 230Kbps
- DB25M, DB25F, DB9M or RJ45 connectors
- Tx and Rx activity indicators
- Power IOLAN DS1 over serial cable

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

Surge Protection
- 15Kv ESD protection on all signals

Network/Ethernet
- 1 x 10/100 RJ45

Protocols
- IPV6, IPV4, TCP/IP, CIDR, ARP, RARP, UDP, UDP Multicast, ICMP, BOOTP, DHCP, TFTP, Telnet, Raw, Reverse Telnet, RFC 2217, RCP, HTTP, Modbus/TCP, Modbus/RTU, Modbus/ASCII

Management
- Web browser
- Perle DeviceManager software to manage multiple Device Servers
- CLI – Telnet, shared console port
- SNMP, MIB II, read and write

Security and Authentication
- Local database

Modem Support
- Full bi-directional

Indicators
- Power/Ready
- Link status/Lan Speed
- Network Link activity
- Serial : Tx and Rx data

Power Supply
- 120V AC (USA)
- 100-240V AC (International)

External power supply provided on North American and International models

Input Power Support
- 9-30V dc, 4.8 Watts

Dimensions, Weight
- Dimension (L x W x H) 9.0 x 6.4 x 2.3 (cm), 3.5 x 2.5 x 0.9 (in)
- Weight - 0.35 kg (0.8lb)

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
- CSA
- UL 1950
- EN 55022 Class A
- EN 60950

TruePort
Fixed TTY/COM port emulation software.
- Microsoft Windows® Server 2003, Vista, XP, 2000, NT
- Linux
- Solaris
- AIX
- SCO UnixWare
- SCO OpenServer
- NCR
- HP UX

Warranty
- Limited lifetime warranty

Model								Part Number		
	Ethernet	Serial Ports	Interface Type	Serial Connector	AC Adapter incl.	9-30V DC	Power From Serial	USA	Europe	UK
IOLAN DS1	10/100	1	EIA-232/422/485	DB25M		•	•	04030000	04030000	04030000
IOLAN DS1	10/100	1	EIA-232/422/485	DB25M	•	•	•	04030004	04030002	04030001
IOLAN DS1	10/100	1	EIA-232/422/485	RJ45	•	•	•	04030114	04030112	04030111
IOLAN DS1	10/100	1	EIA-232/422/485	DB25F	•	•	•	04030134	04030132	04030131
IOLAN DS1	10/100	1	EIA-232/422/485	DB9M	•	•		04030124	04030122	04030121
IOLAN DS1 (Bulk)	10/100	1	EIA-232/422/485	DB25M		•	•	04030010	04030010	04030010

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