

IOLAN SDS-D Secure Device Server

Seriell-zu-Ethernet-Geräteserver

- 1, 2 oder 4 per Software wählbare serielle RS232/422/485-Schnittstellen
- 10/100-Ethernet
- Erweiterte Sicherheitsfunktionen für Datenverschlüsselung, Benutzerauthentifizierung und Ereignisverwaltung



Hardwarespezifikationen - IOLAN SDS-D-Geräteserver

	IOLAN SDB	IOLAN SDB T	IOLAN SDB P
Prozessor	MPC852T, 66 MHz, 87 MIPS		
Speicher			
RAM MB	32		
Flash-MB	8		
Schnittstellenanschlüsse			
Anzahl der seriellen Ports	1, 2 oder 4		
Serielle Schnittstelle	Software wählbar EIA232/422/485 ein		
	1 Port: DB9M, RJ45, DB25M oder DB25F 2 Port: RJ45 4 Port: RJ45	1 Port: DB9M 2 Port: RJ45	1 Port: RJ45 2 Port: RJ45 4 Port: RJ45
Sonne / Solaris	Sun / Oracle 'Solaris' Safe - kein "Break-Signal" wird während des Ein- und Ausschaltens gesendet, was zu kostspieligen Neustarts oder Ausfallzeiten des Servers führt		
Geschwindigkeiten der seriellen Schnittstelle	50bps bis 230Kbps mit anpassbarer Baudratenunterstützung		

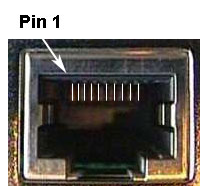
Daten Bits	Konfigurierbar für 5,6,7- oder 8-Bit-Protokollunterstützung Verwenden Sie TruePort, um 9-Bit-Seriell Daten transparent zu übertragen		
Parität	Ungerade, Gerade, Markierung, Leerzeichen, Keine		
Ablaufsteuerung	Hardware, Software, Beides, Keine		
Schutz der seriellen Schnittstelle	15 kV elektrostatischer Entladungsschutz (ESD)		
Port der lokalen Konsole	RS232 am seriellen Port		
Netzwerk	10Base-T/100Base-TX Ethernet RJ45		
	Software wählbare Ethernet-Geschwindigkeit 10/100 Auto		
	Software wählbar Half/Full/Auto Duplex		
Ethernet-Isolierung	1,5 kV magnetische Isolierung		
Leistung	IOLAN SDB	IOLAN SDB T	IOLAN SDB P
Netzteil	120 V AC (USA), 230 V AC (International) Netzteil im Lieferumfang enthalten	Lieferung mit verdrahtetem Hohlstecker, 610 mm (24 Zoll) lang	N / A
Stromversorgungsoptionen	Stromversorgung über externe Stromversorgung 9-30 V DC, 4,8 Watt verwendet standardmäßige 5,5 mm x 9,5 mm x 2,1 mm Hohlbuchse, Power IN über seriell Kabel		
Nenneingangsspannung	12V DC / 24V DC		
Eingangsspannungsbereich	9-30 V DC		
IOLAN über Seriell mit Strom versorgen	9-30 V DC		
Externes Gerät über serielle Schnittstelle mit Strom versorgen	+5V DC geregelt, 1W max		
Typische Leistungsaufnahme bei 12 V DC (Watt)	1 Port: 1.7 2 Port: 2.1 4 Port: 2.4 Beinhaltet keine Stromversorgung für Geräte, die an den seriellen Port angeschlossen sind		

Indikatoren			
LEDs	Stromversorgung/Bereit		
	Netzwerkverbindung		
	Network Link-Aktivität		
	Serial: Transmit and Receive data per port		
Environmental Specifications	IOLAN SDS	IOLAN SDS T	IOLAN SDS P
Heat Output (BTU/HR)	1 Port: 5.8 2 Port: 7.2 4 Port: 8.2		
MTBF (Hours)	1 Port: 123,192 2 Port: 188,596 4 Port: 150,124	1 Port: 555,099 2 Port: 347,364	1 Port: 344,227 2 Port: 188,596 4 Port: 138,467
Calculation model based on MIL-HDBK-217-FN2 @ 30 °C			
Operating Temperature	0C to 55C, 32F to 131F	-40C to 74C, -40F to 165F	0C to 55C, 32F to 131F
Storage Temperature	-40C to 66C, -40F to 150F	-40C to 85C, -40F to 185F	-40C to 66C, -40F to 150F
Humidity	5 to 95% (non condensing) for both storage and operation.		
Case	SECC Zinc plated sheet metal (1 mm)		
Ingress Protection Rating	IP40		
Mounting	Wall or Panel mounting, DIN Rail mounting kit optional		
Product Weight and Dimensions	IOLAN SDS	IOLAN SDS T	IOLAN SDS P
Weight	1 Port: 0.23 kg (0.50 lbs) 2 Port: 0.23 kg (0.50 lbs) 4 Port: 0.35 kg (0.77 lbs)		

Dimensions (without mounting tabs)	1 Port: 90 x 64 x 22 (mm), 3.6 x 2.5 x 0.87 (in) 2 Port: 90 x 64 x 22 (mm), 3.6 x 2.5 x 0.87 (in) 4 Port: 112 x 82 x 28 (mm), 4.4 x 3.2 x 1.1 (in)	1 Port: 91 x 64 x 24 (mm) 3.6 x 2.5 x 0.92 (in) 2 Port: 91 x 64 x 24 (mm) 3.6 x 2.5 x 0.92 (in) 4 port: 112 x 82 x 28 (mm)M 4.4 x 3.2 x 1.1 (in)	
Dimensions with mounting tabs	1 Port: 90 x 89 x 24 (mm), 3.6 x 3.5 x 0.87 (in) 2 Port: 90 x 89 x 24 (mm), 3.6 x 3.5 x 0.87 (in) 4 Port: 112 x 105 x 28 (mm), 4.4 x 4.2 x 1.1 (in)	1 Port: 91 x 89 x 24 (mm) 3.6 x 3.5 x 0.92 (in) 1 Port: 91 x 89 x 24 (mm) 3.6 x 3.5 x 0.92 (in) 4 port: 112 x 105 x 28 (mm) 4.4 x 4.2 x 1.1 (in)	
Packaging			
Shipping Dimensions	260 x 170 x 70 (mm), 10.2 x 6.7 x 2.8 (in)		
Shipping weight	1 Port: 0.49 kg (1.1 lbs) 2 Port: 0.49 kg (1.1 lbs) 4 Port: 0.66 kg (1.5 lbs)	1 Port: 0.42 kg (.92 lbs) 2 Port: 0.42 kg (.92 lbs)	1 Port: 0.4 kg (.88 lbs) 2 Port: 0.4 kg (.88 lbs) 4 Port: 0.54 kg (1.2 lbs)
Regulatory Approvals			
Emissions	CFR47:2003, Chapter 1, Part 15 Subpart B,(USA) Class A		
	ICES-003, Issue 4, February 2004 (Canada)		
	CISPR 32:2015/EN 55032:2015 (Class A)		
	EN55011 (CISPR11)		
	EN61000-3-2 : 2010, Limits for Harmonic Current Emissions		
	EN61000-3-3 : 2010, Limits of Voltage Fluctuations and Flicker		

Immunity	CISPR 24:2010/EN 55024:2010
	EN61000-4-2: 2009 Electrostatic Discharge
	EN61000-4-3: 2006/A2:2010: RF Electromagnetic Field Modulated
	EN61000-4-4: 2004 Fast Transients
	EN61000-4-5: 2006 Surge
	EN61000-4-6: 2009 RF Continuous Conducted
	EN61000-4-8: Power-Frequency Magnetic Field
Safety	IEC 60950-1 (ed 2); am1 am2 and EN 60950-1: 2006+A11: 2009+A1: 2010+A12: 2011+A2: 2013
	CAN/CSA-C22.2 No. 60950-1-03 and ANSI/UL 60950-1, Second Edition
Other	<u>Reach, RoHS and WEEE Compliant</u>
	CCATS - G168387
	ECCN - 5A992
	HTSUS Number: 8517.62.0020
	Perle Limited Lifetime Warranty

IOLAN RJ45 Serial Connector Pinout



RJ45 Socket

Pinout	Direction	EIA-232	EIA-422	EIA-485 Full Duplex	EIA-485 Half Duplex
1		Power In (9-30V DC)	Power In (9-30V DC)	Power In (9-30V DC)	Power In (9-30V DC)
2	in	DCD			
3	out	RTS	TxD+	TxD+	TxD+/RxD+
4	in	DSR			
5	out	TxD	TxD-	TxD-	TxD-/RxD-
6	in	RxD	RxD+	RxD+	
7		GND	GND	GND	GND

8	in	CTS	RxD-	RxD-	
9	out	DTR			
10		Power out	Power out	Power out	Power out

Optional Perle adapters for use with straight thru CAT5 cabling

IOLAN DB9M Serial Connector Pinout



DB9M Socket

Pinout	Direction	EIA-232	EIA-422 Full Duplex	EIA-485 Full Duplex	EIA-485 Full Duplex
1	in	DCD			
2	in	RxD	RxD+	RxD+	
3	out	TxD	TxD+	TxD+	DATA+
4	out	DTR			
5		GND	GND	GND	GND
6	in	DSR	RxD-	RxD-	
7	out	RTS			
8	in	CTS			
9			TxD-	TxD-	DATA-

IOLAN DB25F Socket Serial Connector Pinout



DB25F Socket

Pinout	Direction	EIA-232	EIA-422	EIA-485 Full Duplex	EIA-485 Half Duplex
1		Shield	Shield	Shield	Shield
2	in	RxD			
3	out	TxD			
4	in	CTS			
5	out	RTS			
6	out	DTR			

7		GND	GND	GND	GND
8	in	DCD			
9		Power out	Power out	Power out	Power out
12		Power In (9-30V DC)	Power In (9-30V DC)	Power In (9-30V DC)	Power In (9-30V DC)
13			RTS-		
14			RxD+	RxD+	
15			RxD-	RxD-	
18			CTS+		
19			CTS-		
20	in	DSR			
21			TxD+	TxD+	DATA+
22			TxD-	TxD-	DATA-
25			RTS+		

IOLAN DB25M Serial Connector Pinout



DB25M
Socket

Pinout	Direction	EIA-232	EIA-422	EIA-485 Full Duplex	EIA-485 Half Duplex
1		Shield	Shield	Shield	Shield
2	out	TxD			
3	in	RxD			
4	out	RTS			
5	in	CTS			
6	in	DSR			
7		GND	GND	GND	GND
8	in	DCD			
9		Power out	Power out	Power out	Power out

12		Power In(9-30V DC)	Power In(9-30V DC)	Power In(9-30V DC)	Power In(9-30V DC)
13			CTS-		
14			TxD+	TxD+	DATA+
15			TxD-	TxD-	DATA-
18			RTS+		
19			RTS-		
20	out	DTR			
21			RxD+	RxD+	
22			RxD-	RxD-	
25			CTS-		

Softwarefunktionen - IOLAN SDS-D Geräteserver

Zugriff auf den seriellen Port

Verbinden Sie sich direkt über Telnet / SSH nach Port und IP-Adresse

Verbinden Sie sich mit dem EasyPort-Menü über Telnet / SSH

Verwenden Sie einen Internetbrowser für den Zugriff über HTTP oder sicheres HTTPS über das EasyPort Web-Menü

Java-free browser access to remote serial console ports via Telnet and SSH

Ports can be assigned a specific IP address (aliasing.)

Multisession capability enables multiple users to access ports simultaneously

Multihost access enables multiple hosts/servers to share serial ports

Accessibility

In-band (Ethernet) and out-of-band (dial-up modem) support

Dynamic DNS enables users to find a console server from anywhere on the Internet

Domain name control through DHCP option 81

IPV6 and IPV4 addressing support

Availability

Primary/Backup host functionality enables automatic connections to alternate host(s)

Security

SSH v1 and v2

PCI DSS Compliance: TLS v1.2, TLS v1.1, TLS v1.0, SSL v3.0, SSL v2.0

SSL Server and SSL client mode capability

SSL Peer authentication

IPSec VPN : NAT Traversal, ESP authentication protocol

SSH ciphers: AES-CTR, AES-GCM and ChaCha20-poly1305

SSL encryption: AES-GCM, key exchange ECDH-ECDSA, HMAC SHA256, SHA384

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, Authorization and Accounting

TACACS+ Authentication, Authorization and Accounting

LDAP, NIS, Kerberos Authentication

RSA SecureID-agent or via RADIUS Authentication

SNMP v3 Authentication and Encryption support

IP Address filtering

Disable unused daemons

Active Directory via LDAP

Terminal Server

Telnet

SSH v1 and v2

Rlogin

Auto session login

LPD, RCP printer

MOTD - Message of the day

Serial machine to Ethernet

Tunnel raw serial data across Ethernet - clear or encrypted

Raw serial data over TCP/IP

Raw serial data over UDP

Serial data control of packetized data

Share serial ports with multiple hosts/servers

Virtual modem simulates a modem connection - assign IP address by AT phone number

Virtual modem data can be sent over the Ethernet link with or without SSL encryption

TruePort com/tty redirector for serial based applications on Windows, Linux, Solaris, SCO, HP UX, NCR UNIX and AIX. For a complete list of all the latest drivers click [here](#)

TrueSerial packet technology provides the most authentic serial connections across Ethernet ensuring serial protocol integrity

RFC 2217 standard for transport of serial data and RS232 control signals

Customizable or fixed serial baud rates

Plug-ins allow customer or Perle provided plug-ins for special applications

Software Development Kit (SDK) available

Serial encapsulation of industrial protocols such as ModBus, DNP3 and IEC-870-5-101

ModBus TCP gateway enables serial Modbus ASCII/RTU device connection to ModBus TCP

Data logging will store serial data received when no active TCP session and forward to network peer once session re-established - 32K bytes circular per port

Console Management

Sun / Oracle Solaris Break Safe

Local port buffer viewing - 256K bytes per port

External port buffering via NFS, encrypted NFS and Syslog

Event notification

Manage AC power of external equipment using Perle RPS power management products

Clustering - central console server enables access ports across multiple console servers

Windows Server 2003/2008 EMS - SAC support GUI access to text-based Special Administrative Console

Ping watchdog probes enable customers to power cycle equipment with attached Perle RPS power switches in the event of an unresponsive networking gear

Remote Access

Dial, direct serial PPP, PAP/CHAP, SLIP

HTTP tunneling enables firewall-safe access to remote serial devices across the internet

Automatic DNS Update Utilize DHCP Opt 81 to set IOLAN domain name for easy name management and with Dynamic DNS support , users on the Internet can access the device server by name without having to know its IP address. See Automatic DNS update support for details

IPSEC VPN client/servers Microsoft L2TP/IPSEC VPN client (native to Windows XP)

Microsoft IPSEC VPN Client (native to Windows Vista)

Cisco routers with IPSEC VPN feature set

Perle IOLAN SDS/STS and SCS models

OA&M (Operations, Administration and Management)

SNMP V3 - read and write, Perle MIB

Syslog

Perle Device Manager - Windows based utility for large scale deployments

Configurable default configuration

Installation Wizard

Set a Personalized Factory Default for your IOLANs

Protocols

IPv6, IPv4, TCP/IP, Reverse SSH, SSH, SSL, IPSec/IPv4, IPSec/IPv6, L2TP/IPSec, CIDR, RIPV2/MD5, ARP, RARP, UDP, UDP Multicast, ICMP, BOOTP, DHCP, TFTP, SFTP, SNMP, Telnet, raw, reverse Telnet, LPD, RCP, DNS, Dynamic DNS, WINS, HTTP, HTTPS, SMTP, SNMPV3, PPP, PAP/CHAP, SLIP, CSLIP, RFC2217, MSCHAP

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