

IOLAN SDS-D Secure Device Servers

Serial to Ethernet Device Servers



- 1, 2 or 4 software selectable RS232/422/485 serial port interfaces
- 10/100 Ethernet
- Advanced security features for data encryption, user authentication and event management

Specifications				
Lifetime limited warranty	Reach, RoHS and WEEE Compliant	HTSUS Number: 8517.62.0020	UNSPSC Code: 43222625	ECCN: 5A992
				CCATS Number: G168387
CPU				
Processor	IOLAN SDS MPC852T, 66 Mhz, 87 MIPS		IOLAN SDS T MPC852T, 66 Mhz, 87 MIPS	IOLAN SDS P MPC852T, 66 Mhz, 87 MIPS
Memory				
RAM	32 MB			
Flash	8 MB			
Interface Ports				
Number of Serial Ports	1, 2 or 4			
Serial Port Interface	Software selectable EIA232/422/485 on			

	IOLAN SDS • 1 Port: DB9M, RJ45, DB25M or DB25F • 2 Port: RJ45 • 4 Port: RJ45	IOLAN SDS T • 1 Port: DB9M	IOLAN SDS P • 1 Port: RJ45 • 2 Port: RJ45
Sun / Solaris	Sun / Oracle 'Solaris' Safe - no “ <i>break signal</i> ” sent during power cycle causing costly server re-boots or downtime		
Serial Port Speeds	50bps to 230Kbps with customizable baud rate support		
Data Bits	Configurable for 5,6,7 or 8-bit protocol support Use TruePort to transparently pass 9-bit serial data		
Parity	Odd, Even, Mark, Space, None		
Flow Control	Hardware, Software, Both, None		
Serial Port Protection	15Kv Electrostatic Discharge Protection (ESD)		
Local Console Ports	RS232 on Serial Port		
Network	• 10Base-T / 100Base-TX Ethernet RJ45 • Software selectable Ethernet speed 10/100 Auto • Software selectable Half/Full/Auto duplex		
Ethernet Isolation	1.5Kv Magnetic Isolation		
Power			
Power Supply	IOLAN SDS 120 V AC (USA), 230V AC (International) Wall Power Adaptor included	IOLAN SDS T Supplied with wired Barrell Connector 610mm (24 in) long	IOLAN SDS P N/A
Power Supply Options	• Power via External power 9-30v DC, • 4.8 Watts uses standard 5.5mm x 9.5mm x 2.1mm barrel socket, • Power IN over serial cable		

Nominal Input Voltage	12v DC / 24v DC		
Input Voltage Range	9-30v DC		
Power IOLAN over Serial	9-30v DC		
Power External Device via Serial Port	+5v DC regulated, 1W max		
Typical Power Consumption @ 12v DC (Watts)	• 1 Port: 1.7 • 2 Port: 2.1 • 4 Port: 2.4 Does not include power for devices connected to serial port		
Indicators			
LED	• Power/Ready • Network Link • Network Link activity • Serial: Transmit and Receive data per port		
Environmental Specifications			
Heat Output (BTU/HR)	IOLAN SDS • 1 Port: 5.8 • 2 Port: 7.2 • 4 Port: 8.2	IOLAN SDS T • 1 Port: 5.8 • 2 Port: 7.2 • 4 Port: 8.2	IOLAN SDS P • 1 Port: 5.8 • 2 Port: 7.2
MTBF (Hours)	IOLAN SDS • 1 Port: 123,192 Hours • 2 Port: 188,596 Hours • 4 Port: 150,124 Hours	IOLAN SDS T • 1 Port: 555,099 Hours	IOLAN SDS P • 1 Port: 344,227 Hours • 2 Port: 188,596 Hours
	Calculation model based on MIL-HDBK-217-FN2 @ 30°C		
Operating Temperature	IOLAN SDS 0°C to 55°C, 32°F to 131°F	IOLAN SDS T -40°C to 74°C, -40°F to 165°F	IOLAN SDS P 0°C to 55°C, 32°F to 131°F

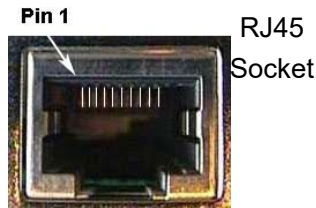
Storage Temperature	IOLAN SDS -40°C to 66°C, -40°F to 150°F	IOLAN SDS T -40°C to 85°C, -40°F to 185°F	IOLAN SDS P -40°C to 66°C, -40°F to 150°F
Humidity	5 to 95% (non condensing) for both storage and operation.		
Case	SECC Zinc plated sheet metal (1 mm)		
Ingress Protection Rating	IP40		
Mounting	Wall or Panel mounting, DIN Rail mounting kit optional		
Product Weight and Dimensions			
Weight	IOLAN SDS • 1 Port: 0.23 kg (0.50 lbs) • 2 Port: 0.23 kg (0.50 lbs) • 4 Port: 0.35 kg (0.77 lbs)	IOLAN SDS T • 1 Port: 0.23 kg (0.50 lbs) • 2 Port: 0.23 kg (0.50 lbs) • 4 Port: 0.35 kg (0.77 lbs)	IOLAN SDS P • 1 Port: 0.23 kg (0.50 lbs) • 2 Port: 0.23 kg (0.50 lbs)
Dimensions (without mounting tabs)	IOLAN SDS • 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)	IOLAN SDS T • 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)	IOLAN SDS P • 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)

Dimensions (with mounting tabs)	IOLAN SDS • 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)	IOLAN SDS T • 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)	IOLAN SDS P • 1 Port: 91 x 89 x 24 (mm), 3.6 x 3.5 x 0.92 (in) • 2 Port: 91 x 89 x 24 (mm), 3.6 x 3.5 x 0.92 (in)
Packaging			
Shipping Dimensions	260 x 170 x 70 (mm), 10.2 x 6.7 x 2.8 (in)		
Shipping weight	IOLAN SDS • 1 Port: 0.49 kg (1.1 lbs) • 2 Port: 0.49 kg (1.1 lbs) • 4 Port: 0.66 kg (1.5 lbs)	IOLAN SDS T • 1 Port: 0.42 kg (0.92 lbs)	IOLAN SDS P • 1 Port: 0.4 kg (0.88 lbs) • 2 Port: 0.4 kg (0.88 lbs)
Regulatory Approvals			
Emissions	• CFR47:2003, Chapter 1, Part 15 Subpart B,(USA) Class A • ICES-003, Issue 4, February 2004 (Canada) • CISPR 32 / EN 55032 • EN55011 (CISPR11) • EN61000-3-2 : 2010, Limits for Harmonic Current Emissions • EN61000-3-3 : 2010, Limits of Voltage Fluctuations and Flicker		
Immunity	• CISPR 35 / EN 55035 • 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

- UL/EN/IEC 62368-1
- CAN/CSA C22.2 No. 62368-1
- 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

IOLAN RJ45 Serial Connector Pinout



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

IOLAN DB9M Serial Connector Pinout



DB9M
Socket

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

IOLAN DB25F Serial Connector Pinout



DB25F
Socket

Pinout	Direction	EIA-232	EIA-422	EIA-485 Full Duplex	EIA-485 Half Duplex
		Shield	Shield		
1	N/A	RxD	N/A	Shield	Shield
2	in	TxD	N/A	N/A	N/A
3	out	CTS	N/A	N/A	N/A
4	in	RTS	N/A	N/A	N/A
5	out	DTR	N/A	N/A	N/A
6	out	GND	GND	N/A	N/A
7	N/A	DCD	N/A	GND	GND
8	in	Power out	Power out	N/A	N/A
9	N/A	Power In (9-30V	Power In (9-30V	Power out	Power out
12	N/A	DC)	DC)	Power In (9-30V DC)	Power In (9-30V DC)
13	N/A	N/A	RTS-	N/A	N/A
14	N/A	N/A	RxD+	RxD+	N/A
15	N/A	N/A	RxD-	RxD-	N/A
18	N/A	N/A	CTS+	N/A	N/A
19	N/A	N/A	CTS-	N/A	N/A
20	in	DSR	N/A	N/A	N/A
21	N/A	N/A	TxD+	TxD+	DATA+
22	N/A	N/A	TxD-	TxD-	DATA-
25	N/A	N/A	RTS+	N/A	N/A

IOLAN DB25M Serial Connector Pinout



DB25M
Socket

Pinout	Direction	EIA-232	EIA-422	EIA-485 Full Duplex	EIA-485 Half Duplex
		Shield	Shield		
1	N/A	TxD	N/A	Shield	Shield
2	out	RxD	N/A	N/A	N/A
3	in	RTS	N/A	N/A	N/A
4	out	CTS	N/A	N/A	N/A
5	in	DSR	N/A	N/A	N/A
6	in	GND	GND	N/A	N/A
7	N/A	DCD	N/A	GND	GND
8	in	Power out	Power out	N/A	N/A
9	N/A	Power In (9-30V DC)	Power In (9-30V DC)	Power out	Power out
12	N/A			Power In (9-30V DC)	Power In (9-30V DC)
13	N/A	N/A	CTS-	N/A	N/A
14	N/A	N/A	TxD+	TxD+	DATA+
15	N/A	N/A	TxD-	TxD-	DATA-
18	N/A	N/A	RTS+	N/A	N/A
19	N/A	N/A	RTS-	N/A	N/A
20	out	DTR	N/A	N/A	N/A
21	N/A	N/A	RxD+	RxD+	N/A
22	N/A	N/A	RxD-	RxD-	N/A
25	N/A	N/A	CTS+	N/A	N/A

Software Features - IOLAN SDS-D Device Servers

Serial Port Access

- Connect directly using Telnet / SSH by port and IP address
- **Connect with EasyPort menu by Telnet / SSH**
- **Use an internet browser to access with HTTP or secure HTTPS via EasyPort Web menu**
- 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
- **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**

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, SNTP, Telnet, raw, reverse Telnet, LPD, RCP, DNS, Dynamic DNS, WINS, HTTP, HTTPS, SMTP, SNMPV3, PPP, PAP/CHAP, SLIP, CSLIP, RFC2217, MSCHAP	

Product List



IOLAN SDS1 Secure Device Server: 1 x DB9M connector with software selectable RS232/422/485 interface, 10/100 Ethernet advanced data encryption, user authentication and event management security features included, IPv6, COM port redirector, 15kv ESD

Power Cord & Part Number(s)

USA	UK	EU	None
04030154	04030151	04030152	04030158



IOLAN SDS1 Secure Device Server: 1 x RJ45 connectors with software selectable RS232/422/485 interface, 10/100 Ethernet, advanced data encryption, user authentication and event management security features included, IPv6, COM port redirector, 15kv ESD

Power Cord & Part Number(s)

USA	UK	EU	None
04030144	04030141	04030142	04030148



IOLAN SDS1 Secure Device Server: 1 x DB25F connector with software selectable RS232/422/485 interface, 10/100 Ethernet advanced data encryption, user authentication and event management security features included, IPv6, COM port redirector, 15kv ESD

Power Cord & Part Number(s)

USA	UK	EU	AUS	None
04030164	04030161	04030162	04030166	04030168



IOLAN SDS1 Secure Device Server: 1 x DB25M connector with software selectable RS232/422/485 interface, 10/100 Ethernet, advanced data encryption, user authentication and even management security features included, IPv6, COM port redirector, 15kv ESD

Power Cord & Part Number(s)

USA	UK	EU	None
04030024	04030021	04030022	04030028



IOLAN SDS1 T Secure Device Server - 1 x DB9M serial port, Extended Temperature, pigtail power connector included, software selectable RS232/422/485 interfaces, 10/100 Ethernet, advanced feature set

Power Cord & Part Number(s)

None
04030610



IOLAN SDS1 P PoE Secure Device Server- 1 x RJ45 serial port, 802.3af Power over Ethernet (PoE) compliant, software selectable RS232/422/485 interface, 10/100 Ethernet, advanced feature set

Power Cord & Part Number(s)

None
04030170



IOLAN SDS2 Secure Device Server: 2 x RJ45 connectors with software selectable RS232/422/485 interfaces, 10/100 Ethernet, advanced data encryption, user authentication and event management security features included, IPv6, COM port redirector, 15kv ESD

Power Cord & Part Number(s)

USA	UK	EU	AUS	None
04030104	04030101	04030102	04030106	04030108



IOLAN SDS2 P PoE Secure Device Server- 2 x RJ45 serial ports, 802.3af Power over Ethernet (PoE) compliant, software selectable RS232/422/485 interfaces, 10/100 Ethernet, advanced feature set

Power Cord & Part Number(s)

None
04030180



IOLAN SDS4 Secure Device Server: 4 x RJ45 connectors with software selectable RS232/422/485 interfaces, 10/100 Ethernet, advanced data encryption, user authentication and event management security features included, IPv6, COM port redirector, 15kv ESD

Power Cord & Part Number(s)

USA	UK	EU	SA	AUS	None
04030304	04030301	04030302	04030305	04030306	04030308



IOLAN SDS4 P PoE Secure Device Server- 4 x RJ45 serial ports, 802.3af Power over Ethernet (PoE) compliant, software selectable RS232/422/485 interfaces, 10/100 Ethernet, advanced feature set

Power Cord & Part Number(s)

None
04030340

Related Accessories

Cable Accessories



3 meter RJ45 to RJ45 CAT5 Straight-thru cable #1100360-10

04005120



Cvtr-PC DB25 Pri - RJ45-DB25 converter for IOLAN to PC DB25 Female.

04006930



Cvtr-PC DB9 Pri - RJ45-DB9 converter for IOLAN to PC DB9 Female.

04006931



Cvtr-Print DB25 Pri - RJ45-DB25 converter for IOLAN to Printer DB25 Male.

04006933



DBA0010 - RJ-45F to DB-25F crossover (DTE) adapter #1100220-10 for console port.

04006950



DBA0011 - RJ-45F to DB-25M crossover (DTE) adapter #1100230-10 for console ports.

04006960



DBA0020 - RJ-45F to DB-9F crossover (DTE) adapter #1100240-10 for console ports.

04006970



DBA0021 - RJ-45F to DB-9M crossover (DTE) adapter #1100250-10 for console ports.

04006980



DBA0013 - RJ-45F to DB-25M straight-thru (DCE) adapter #1100260-10 for modems.

04006990



IOLAN Starter Kit (8-wire): 1x RJ-45 to DB-25 DTE Male adapter, 1x RJ-45 to DB-25 DCE Male

04007000



DBA0023 - RJ-45F to DB-9M straight-thru (DCE) adapter #1100340-10 for modems.

04007200



3m Cbl-Sun/Cisco Pri - RJ45-RJ45 IOLAN DS to Sun/Cisco 3m Cable

04030070



DBA0031 - IOLAN - RJ45M to RJ45F Sun/Cisco crossover adapter #1100219-10.

04030080



DBA0031 8pck - 8 pack of #04030080 IOLAN-RJ45M to RJ45F Sun/Cisco crossover adapter.

04031230



DBA0010 8pck - 8 pack of #04006950 IOLAN-RJ45F to DB25F (DTE) crossover adapter.

04031240



DBA0011 8pck - 8 pack of #04006960 IOLAN-RJ45F to DB25M (DTE) crossover adapter.

04031250



DBA0020 8pck - 8 pack of #04006970 IOLAN-RJ45F to DB9F (DTE) crossover adapter.

04031260



DBA0021 8pck - 8 pack of #04006980 IOLAN-RJ45F to DB9M (DTE) crossover adapter.

04031270



DBA0013 8pck - 8 pack of #04006990 IOLAN-RJ45F to DB25M Straight-thru adapter for modems.

04031280

Accessories



DIN Rail Mounting Kit for 1 or 2 port IOLAN DS, TS, SDS, and eR-S1110 Ethernet Repeater

04030030



DIN Rail Mounting Kit for 4 & 8 port IOLAN desktop models, all Stand-Alone Media Converters and all Stand-alone Ethernet Extenders. Two of these brackets are required for the 8 port STS8-D model.

04030840

Power Supplies



UK Extended Temperature 12VDC / 24W power adapter for Perle Device Servers, Media

04030671



EU Extended Temperature 12VDC / 24W power adapter for Perle Device Servers, Media

04030672



USA Extended Temperature 12VDC / 24W power adapter for Perle Device Servers, Media

04030674



South Africa Extended Temperature 12VDC / 24W power adapter for Perle Device Servers, Media

04030675



Australia Extended Temperature 12VDC / 24W power adapter for Perle Device Servers, Media

04030676



UK 12VDC / 12W power adapter with Barrel connector for Perle Device Servers, Media Converters, and Ethernet Extenders

04031581



EU 12VDC / 12W power adapter with Barrel connector for Perle Device Servers, Media Converters, and Ethernet Extenders

04031582



USA 12VDC / 12W power adapter with Barrel connector for Perle Device Servers, Media Converters, and Ethernet Extenders

04031584



Australia 12VDC / 12W power adapter with Barrel connector for Perle Device Servers, Media Converters, and Ethernet Extenders

04031586

Maintenance agreements - Console Server / Device Server / Terminal Server



1 Port Terminal/Device/Console Server - Express Replacement 1 Year Maintenance Contract

SERNSS01



2 Port Terminal Device/Console Server - Express Replacement 1 Year Maintenance Contract

SERNSS02



2 Port Terminal Device/Console Server - Express Replacement 1 Year Maintenance Contract, French

SERNSS02F



4 Port Terminal/Device/Console Servers - Express Replacement 1 Year Maintenance Contract

SERNSS04



4 Port Terminal/Device/Console Servers - Express Replacement 1 Year Maintenance Contract, French

SERNSS04F