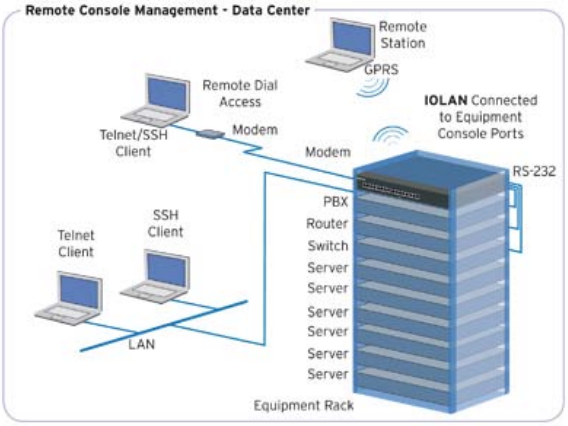
IOLAN SCS Console Server

- 8, 16, 32 or 48 RS-232 serial port interfaces
- Dual 10/100/1000 Ethernet support with Redundant Path Technology
- PCI Slot for integration of Modem or GSM or Fiber Card

IOLAN SCS Console Servers have a truly fault tolerant design to minimize downtime and provide reliable, secure remote device management. With built-in dual Ethernet and Redundant Path technology the IOLAN SCS provides assured serial console port access, offering the most reliable solution for managing data center and remote branch equipment… all at the best price performance.

Why IOLAN SCS Console Servers are the preferred choice:



- High performance 400 MHz, 750 MIPS, 32 bit processor with integrated hardware encryption processor for the best throughput
- Clustering – Provides a single view of all out of band console ports. Ideal for large data centers
- Intelligent Power cycling of equipment with Perle Remote Power Switches
- Next Generation IP support (IPv6) for investment protection and network compatibility
- Primary/Backup host functionality enables automatic connections to alternate hosts should the primary TCP connection go down
- EasyPort Web – Access equipment serial console ports by using your java-enabled Internet browser
- FIPS 140-2 – Cryptographic modules meet US Government NIST compliancy
- Dynamic DNS – Easy console management access from anywhere on the Internet
- Java-free browser access to remote serial console ports via Telnet and SSH
- Ping watchdog probes enable customers to power cycle equipment with attached Perle RPS power switches in the event of an unresponsive networking gear
- Lifetime warranty – best investment protection available

Secure Serial Console Management

IOLAN SCS Console 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. Data management 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.

By using encryption technologies, an IOLAN Console Server protects sensitive and confidential data before being sent across a corporate Intranet or public Internet. For compatibility with peer encryption devices, all of the major encryption ciphers such as AES, 3DES, RC4, RC2 and CAST128 are fully supported.

Recognized as the most secure method for communicating to remote private networks over the Internet, the IPSec standard provides robust authentication and encryption of IP packets at the network layer of the OSI model. As a standard it is ideal for multi-vendor interoperation within a network, providing flexibility and the ability to match the right solution for a particular application.

High Availability Access

The IOLAN SCS has built-in fault tolerant capabilities to ensure secure and reliable access for managing important mission critical equipment. Dual Ethernet interfaces on the IOLAN SCS provide redundant network paths while dual AC power supply models ensure that console management is available even if the primary AC power source fails. For remote administrators that require access from home, on the road or in the event of a total network failure, an optional IOLAN V.92 modem card delivers a solid, integrated solution with direct phone line attachment via its onboard RJ11 jack.

Protection against electrostatic discharges and power surges is provided with robust 15Kv ESD protection circuitry on each serial port.

Advanced IP Technology

With support for Next Generation IP (IPv6) the IOLAN range provides organizations with investment protection to meet this rapidly growing standard.

Demand for IPv6, which is compatible with IPv4 addressing schemes, is driven by the need for more IP address. With the implementation and rollout of 3G cellular networks, a robust method is needed to handle the huge influx of new IP addressable devices on the Internet. In fact, the US Department of Defense has mandated that all equipment purchased from 2005 be IPv6 compatible with full implementation by 2008. In addition, all major Operating Systems such as Windows, Linux, Unix and Solaris, as well as routers, have built-in support for IPv6.

It is therefore important for end users and integrators to select networking equipment that incorporates the IPv6 standard. The IOLAN line with support for IPv6 already built in, is the best choice in serial to Ethernet technology.

Lifetime Warranty

All Perle IOLAN SCS 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.

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
	SSL V3.0/TLS V1.0, SSL V2.0
	SSL Server and SSL client mode capability
	SSL Peer authentication
	IPSec VPN : NAT Traversal, ESP authentication protocol
	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

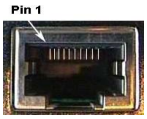
	Share serial ports with multiple hosts/servers
	Virtual modem simulates a modem connection - assign IP address by AT phone number
	Virtual modem data can be sent over the Ethernet link with or without SSL encryption
	TruePort com/tty redirector for serial based applications on Windows, Vista, Linux, Solaris, SCO and HP UX. For 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 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, SNTP, Telnet, raw, reverse Telnet, LPD, RCP, DNS, Dynamic DNS, WINS, HTTP, HTTPS, SMTP, SNMPV3, PPP, PAP/CHAP, SLIP, CSLIP, RFC2217, MSCHAP

Hardware Specifications - IOLAN SCS Fault Tolerant AC Models

	SCS8C	SCS8C DAC	SCS16C	SCS16C DAC	SCS32C	SCS32C DAC	SCS48C	SCS48C DAC
Processor	MPC8349E, 400 Mhz, 750 MIPS							
Memory								
RAM MB	64	64	64	64	128	128	128	128
Flash MB	16	16	16	16	16	16	16	16
Interface Ports								
Number of Serial Ports	8	8	16	16	32	32	48	48
Serial Port Interfase	RS232 DTE on RJ45							
Sun / Solaris	Sun break safe							
Serial Port Speeds	50bps to 230Kbps with customizable baud rate support							
Data Bits	5,6,7,8, 9-bit protocol support							
Parity	Odd, Even, Mark, Space, None							
Flow Control	Hardware, Software, Both, None							
Serial Port Protection	15Kv Electrostatic Discharge Protection (ESD)							
Local Console Port	RS232 on RJ45 with DB9 adapter (provided)							
Network	Dual 10/100/1000-base TX Ethernet RJ45							
	Software selectable Ethernet speed 10/100/1000, Auto							
	Software selectable Half/Full/Auto duplex							
Ethernet Isolation	1.5Kv Magnetic Isolation							
Integrated Modem	Optional modem card available							
Integrated Wireless	Optional PC card adapter available for GSM/GPRS/3G wireless cards: Sony Ericsson PC300, Sony EricssonGC83, Sierra Wireless AirCard 881, Sierra Wireless 860							
Power								
Power Supply	USA models	IEC320-C13 to NEMA 5-15P line cord						
	UK models	IEC320-C13 to BS1363 line cord						
	EU models	IEC320-C13 to CEE 7/7 Schuko						
	South Africa models	IEC320-C13 to BS546 line cord						
	Australia models	IEC320-C13 to AS3112 line cord						
Redundant Power		Dual power supply		Dual power supply		Dual power supply		Dual power supply
Nominal Input Voltage	110/230v AC							
Input Voltage Range	100-240v AC							
AC Input Frequency	47-63Hz							
Current Consumption @ 100v (Amps)	0.17	0.20	0.18	0.21	0.19	0.22	0.2	0.23
Current Consumption @ 240v (Amps)	0.07	0.08	0.08	0.09	0.08	0.09	0.08	0.09
Typical Power Consumption (Watts)	17	19.5	18	20.5	19	21.5	20	22.5
Power Line Protection	Fast transients: 1 KV (EN61000-4-4 Criteria B)							
	Surge: 2KV (EN61000-4-5 common mode), 1KV (EN61000-4-5 differential and common modes)							
Indicators								
LEDs	Power							

LEDs	System Ready							
	Network Link activity							
	Serial: Transmit and Receive data per port							
Environmental Specifications								
Heat Output (BTU/HR)	58	67	62	70	65	74	69	77
MTBF (Hours)	130539	99587	122926	95094	111053	87829	115980	90884
Operating Temperature	0C to 55C, 32F to 131F							
Storage Temperature	-40C to 85C, -40F to 185F							
Humidity	5 to 95% (non condensing) for both storage and operation.							
Case	SECC Zinc plated sheet metal (1 mm)							
Ingress Protection Rating	IP30							
Mounting	1U - 19" rack, front and rear mounting hardware included							
Product Weight and Dimensions								
Weight	3.0 kg	3.2 kg	3.1 kg	3.4 kg	3.2 kg	3.5 kg	3.5 kg	3.6 kg
Dimensions	1U Rack form factor - 26.4 x 43.4 x 4.4 (cm), 10.38 x 17.1 x 1.75 (in)							
Packaging								
Shipping Dimensions	59 x 36 x 9cm							
Shipping Weight	4.0 kg	4.2 kg	4.2 kg	4.4 kg	4.4 kg	4.8 kg	4.5 kg	4.9 kg
Regulatory Approvals								
Emissions	FCC Part 15, Subpart B, Class A							
	CFR47:2003, Chapter 1, Part 15 Subpart B,(USA) Class A							
	ICES-003, Issue 4, February 2004 (Canada)							
	EN55022:1998 + A1:2000 + A2:2003 Class A							
	EN61000-3-2 : 1995, Limits for Harmonic Current Emissions							
	EN61000-3-3 : 1995, Limits of Voltage Fluctuations and Flicker							
Immunity	EN55024:1998 + A1:2001 + A2:2003							
	EN61000-4-2: Electrostatic Discharge							
	EN61000-4-3: RF Electromagnetic Field Modulated							
	EN61000-4-4: Fast Transients							
	EN61000-4-5: Surge							
	EN61000-4-6: RF Continuous Conducted							
	EN61000-4-8: Power-Frequency Magnetic Field							
	EN61000-4-11: Voltage Dips and Voltage Interruptions							
Safety	IEC 60950-1 : 2005 (2nd Edition) + A1 : 2009 and EN 60950-1 : 2006 + A11 : 2009							
	CAN/CSA-C22.2 No. 60950-1-03 and ANSI/UL 60950-1, First Edition April 1st 2003 (Recognized Component)							
Other	RoHS - 2002/95/EC Directive							
	WEEE - 2002/96/EC Directive							
	CCATS - G052929							
	ECCN - 5A992A							
	HTSUS Number: 8471.80.1000							
	Perle Lifetime warranty							

IOLAN DTE



RJ45 Socket

IOLAN RJ45 Socket	Function	Direction
1	DCD	←
2	RTS	→
3	DSR	←
4	TXD	→
5	RXD	←
6	GND	—
7	CTS	←
8	DTR	→

Optional Perle adapters for use with straight thru CAT5 cabling

Make your own cables

Hardware Specifications - IOLAN SCS Fault Tolerant 48v DC Models

	IOLAN SCS8C DC	IOLAN SCS16C DC	IOLAN SCS32C DC	IOLAN SCS48C DC
Processor	MPC8349E, 400 Mhz, 750 MIPS			
Memory				
RAM MB	64	64	128	128
Flash MB	16	16	16	16
Interface Ports				
Number of Serial Ports	8	16	32	48
Serial Port Interfase	RS232 DTE on RJ45			
Sun / Solaris	Sun break safe			
Serial Port Speeds	50bps to 230Kbps with customizable baud rate support			
Data Bits	5,6,7,8, 9-bit protocol support			
Parity	Odd, Even, Mark, Space, None			
Flow Control	Hardware, Software, Both, None			
Serial Port Protection	15Kv Electrostatic Discharge Protection (ESD)			
Local Console Port	RS232 on RJ45 with DB9 adapter (provided)			
Network	10/100/1000-base TX Ethernet RJ45			
	Software selectable Ethernet speed 10/100/1000, Auto			
	Software selectable Half/Full/Auto duplex			
Ethernet Isolation	1.5Kv Magnetic Isolation			
Integrated Modem	Integrated V.92 modem - RJ11 jack			
Integrated Wireless	Optional PC card adapter available for GSM/GPRS/3G wireless cards: Sony Ericsson PC300, Sony EricssonGC83, Sierra Wireless AirCard 881, Sierra Wireless 860			
Power				
Power Supply	Dual Feed -48v DC A and B Input			
Nominal Input Voltage	48 VDC			
Input Voltage Range	36-72 VDC			
Current Consumption @ 36v (Amps)	0.25	0.28	0.45	0.5
Current Consumption @ 48v (Amps)	0.19	0.21	0.34	0.38
Current Consumption @ 72v (Amps)	0.13	0.14	0.22	0.25
Typical Power Consumption (Watts)	9	10	16	18
Power Line Protection	Fast transients: 1 KV (EN61000-4-4 Criteria B)			
	Surge: 2KV (EN61000-4-5 common mode), 1KV (EN61000-4-5 differential and common modes)			
Indicators				
LEDs	Power			
	System Ready			
	Network Link activity			
	Serial: Transmit and Receive data per port			
Environmental Specifications				
Heat Output (BTU/HR)	31	34	55	62
MTBF (Hours)	118622	112256	94603	80743
Operating Temperature	0C to 55C, 32F to 131F			
Storage Temperature	-40C to 85C, -40F to 185F			
Humidity	5 to 95% (non condensing) for both storage and operation.			

Case	SECC Zinc plated sheet metal (1 mm)			
Ingress Protection Rating	IP30			
Mounting	1U - 19" rack, front and rear mounting hardware included			
Product Weight and Dimensions				
Weight	3.0 kg	3.0 kg	3.2 kg	3.5 kg
Dimensions	26.4 x 43.4 x 4.4 (cm), 10.38 x 17.1 x 1.75 (in)			
Packaging				
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	EN55022:1998 + A1:2000 + A2:2003 Class A			
	EN61000-3-2 : 1995, Limits for Harmonic Current Emissions			
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Immunity	EN55024:1998 + A1:2001 + A2:2003			
	EN61000-4-2: Electrostatic Discharge			
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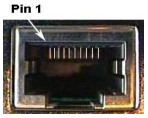
	EN61000-4-4: Fast Transients			
	EN61000-4-5: Surge			
	EN61000-4-6: RF Continuous Conducted			
	EN61000-4-8: Power-Frequency Magnetic Field			
	EN61000-4-11: Voltage Dips and Voltage Interruptions			
Safety	IEC 60950-1 : 2005 (2nd Edition) + A1 : 2009 and EN 60950-1 : 2006 + A11 : 2009			
	CAN/CSA-C22.2 No. 60950-1-03 and ANSI/UL 60950-1, First Edition April 1st 2003 (Recognized Component)			
Other	RoHS - 2002/95/EC Directive			
	WEEE - 2002/96/EC Directive			
	CCATS - G052929			
	ECCN - 5A992A			
	HTSUS Number: 8471.80.1000			
	Perle Lifetime warranty			

IOLAN DTE



RJ45 Socket

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4	TXD	→
5	RXD	←
6	GND	—
7	CTS	←
8	DTR	→

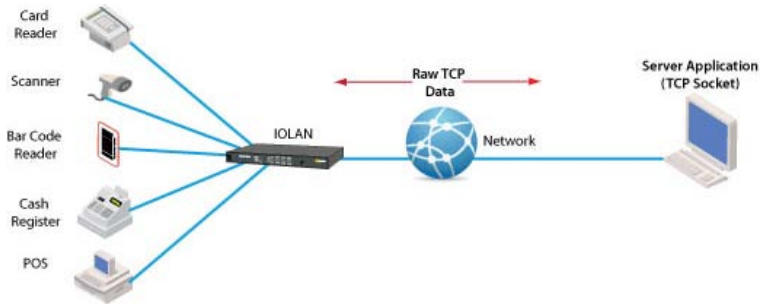
Optional Perle adapters for use with straight thru CAT5 cabling

Make your own cables

TCP

Using RAW TCP Sockets

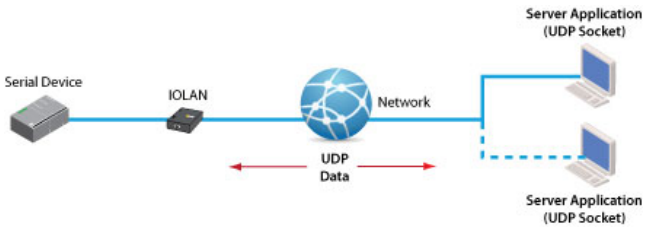
A raw TCP socket connection which can be initiated from the serial-Ethernet device or from the remote host/server. This can either be on a point to point or shared basis where a serial device can be shared amongst multiple devices. TCP sessions can be initiated either from the TCP server application or from the Perle IOLAN **serial-Ethernet** adapter.



UDP

Using Raw UDP Sockets

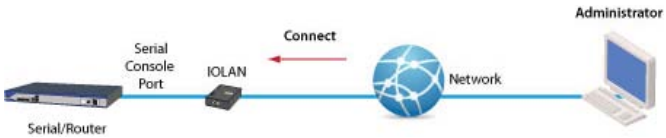
For use with UDP based applications, Perle IOLANs can convert serial equipment data for transport across UDP packets either on a point to point basis or shared across multiple devices.



Console Server

Console Management

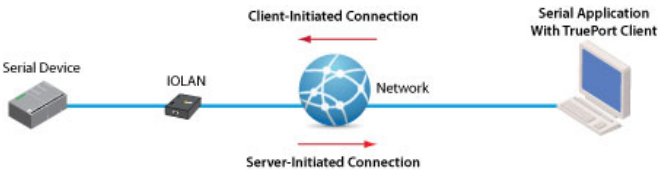
For access to remote console ports on routers, switches,etc, Perle IOLAN's enable administrators secure access to these RS232 ports via inband Reverse Telnet / SSH or out of band with dial-up modems. Perle IOLAN models with integrated modems are available.



COM/TTY

Connect Serial-based Applications with a COM/TTY Port Driver

Serial ports can be connected to network servers or workstations running Perle's TruePort software operating as a virtual COM port. Sessions can be initiated either from the Perle IOLAN or from TruePort.



Tunneling

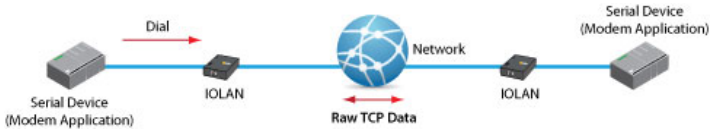
Serial Tunneling between two Serial Devices

Serial Tunneling enables you to establish a link across Ethernet to a serial port on another IOLAN. Both IOLAN serial ports must be configured for Serial Tunneling (typically one serial port is configured as a Tunnel Server and the other serial port as a Tunnel Client).

Virtual Modem

Virtual Modem

Enables the serial-Ethernet adapter to simulate a modem connection. When connected to the IOLAN and initiates a modem connection, the IOLAN starts up a TCP connection to another IOLAN serial-Ethernet adapter configured with a Virtual Modem serial port or to a host running a TCP application.



	Description	Power Cord	Product Part Number
	IOLAN SCS48 DAC - 48 x RJ45 serial ports, Dual AC power, RS232 interface, Dual 10/100/1000 Ethernet, PCI slot for modem or wireless card, advanced feature set	USA	04030214
		UK	04030211
		EU	04030212
		SA	04030215
		AUS	04030216
	IOLAN SCS48 - 48 x RJ45 serial ports, Single AC power, RS232 interface, Dual 10/100/1000 Ethernet, PCI slot for modem or wireless card, advanced feature set	USA	04030294
		UK	04030291
		EU	04030292
		SA	04030295
		AUS	04030296
	IOLAN SCS32 DC - 32 x RJ45 serial ports, 48VDC power, RS232 interface, Dual 10/100/1000 Ethernet, PCI slot for modem or wireless card, advanced feature set	48v DC	04030270
	IOLAN SCS32 - 32 x RJ45 serial ports, Single AC power, RS232 interface, Dual 10/100/1000 Ethernet, PCI slot for modem or wireless card, advanced feature set	USA	04030284
		UK	04030281
		EU	04030282
		SA	04030285
		AUS	04030286
	IOLAN SCS32 DAC - 32 x RJ45 serial ports, Dual AC power, RS232 interface, Dual 10/100/1000 Ethernet, PCI slot for modem or wireless card, advanced feature set	USA	04030204
		UK	04030201
		EU	04030202
		SA	04030205
		AUS	04030206
	IOLAN SCS16 DAC - 16 x RJ45 serial ports, Dual AC power, RS232 interface, Dual 10/100/1000 Ethernet, PCI slot for modem or wireless card, advanced feature set	USA	04030254
		UK	04030251
		EU	04030252
		SA	04030255
		AUS	04030256
	IOLAN SCS16 DC - 16 x RJ45 connector, 48VDC power, EIA232 interface, Dual 10/100/1000 Ethernet, PCI slot for V.92 modem card, advanced data encryption, user authentication and event management security features included, IPv6, COM port redirector, 15kv ESD	48v DC	04030860
	IOLAN SCS16 - 16 x RJ45 serial ports, Single AC power, RS232 interface, Dual 10/100/1000 Ethernet, PCI slot for modem or wireless card, advanced feature set	USA	04030244
		UK	04030241
		EU	04030242
		SA	04030245
		AUS	04030246
	IOLAN SCS8 DAC - 8 x RJ45 serial ports, Dual AC power, RS232 interface, Dual 10/100/1000 Ethernet, PCI slot for modem or wireless card, advanced feature set	USA	04030234
		UK	04030231
		EU	04030232
		SA	04030235
		AUS	04030236
	IOLAN SCS8 DC - 8 x RJ45 connector, 48v DC power, EIA232 interface, Dual 10/100/1000 Ethernet, PCI slot for V.92 modem card, advanced data encryption, user authentication and event management security features included, IPv6, COM port redirector, 15kv ESD	48v DC	04030870
	IOLAN SCS8 - 8 x RJ45 serial ports, Single AC power, RS232 interface, Dual 10/100/1000 Ethernet, PCI slot for modem or wireless card, advanced feature set	USA	04030224
		UK	04030221
		EU	04030222
		SA	04030225
		AUS	04030226

Accessories:

Accessories			
	3m Cbl-Straighthru	3 meter RJ45 to RJ45 CAT5 Straight-thru cable #1100360-10	04005120
	IOLAN Modem Card EU	Internal V.92 modem card for IOLAN SCS rack series - EU version	04030852
	IOLAN Modem Card UK	Internal V.92 modem card for IOLAN SCS rack series - UK version	04030851
	IOLAN Modem Card USA	Internal V.92 modem card for IOLAN SCS rack series - USA version	04030854
	IOLAN RACK DIN RAIL	DIN Rail Mounting Kit for all IOLAN Rack models	04032490
	PC Card Adapter	IOLAN SCS Adapter for 3rd party PC (PCMCIA) cards.	04032120
Cable Accessories Please click here to see what adapters you may need			
	3m Cbl-Sun/Cisco Prl	3m Cbl-Sun/Cisco Prl - RJ45-RJ45 IOLAN DS to Sun/Cisco 3m Cable	04030070
	DBA0010	DBA0010 - RJ-45F to DB-25F crossover (DTE) adapter for console port #1100220-10	04006950
	DBA0010 8pck	DBA0010 8pck - 8 pack of #04006950 IOLAN-RJ45F to DB25F (DTE) crossover adapter	04031240
	DBA0011	DBA0011 - RJ-45F to DB-25M crossover (DTE) adapter for console ports. #1100230-10	04006960
	DBA0011 8pck	DBA0011 8pck - 8 pack of #04006960 IOLAN-RJ45F to DB25M (DTE) crossover adapter	04031250
	DBA0013	DBA0013 - RJ-45F to DB-25M straight-thru (DCE) adapter for modems #1100260-10	04006990
	DBA0013 8pck	DBA0013 8pck - 8 pack of #04006990 IOLAN-RJ45F to DB25M Straight-thru adapter for modems	04031280
	DBA0020	DBA0020 - RJ-45F to DB-9F crossover (DTE) adapter for console ports. #1100240-10	04006970
	DBA0020 8pck	DBA0020 8pck - 8 pack of #04006970 IOLAN-RJ45F to DB9F (DTE) crossover adapter	04031260
	DBA0021	DBA0021 - RJ-45F to DB-9M crossover (DTE) adapter for console ports. #1100250-10	04006980
	DBA0021 8pck	DBA0021 8pck - 8 pack of #04006980 IOLAN-RJ45F to DB9M (DTE) crossover adapter	04031270
	DBA0023	DBA0023 - RJ-45F to DB-9M straight-thru (DCE) adapter for modems #1100340-10	04007200
	DBA0031	DBA0031 - IOLAN - RJ45M to RJ45F Sun/Cisco crossover adapter #1100219-10	04030080
	DBA0031 8pck	DBA0031 8pck - 8 pack of #04030080 IOLAN-RJ45M to RJ45F Sun/Cisco crossover adapter	04031230
Maintenance agreements - Console Server / Device Server / Terminal Server Please click here to check for maintenance availability in your region			
	NSS- 8 PortONSITE5x7	8 Port Terminal/Device/Console Servers - On Site Mon-Fri 9am - 5pm	SOS5NSS08
	NSS- 8 PortONSITE7X24	8 Port Terminal/Device/Console Servers - On-Site 7x24	SOS7NSS08
	NSS- 8 PortXPRESSREP	8 Port Terminal/Device/Console Servers - Express Replacement	SERNSS08
	NSS- 8 PortXPRESSREPF	8 Port Terminal/Device/Console Servers - Express Replacement French	SERNSS08F
	NSS-16 PortONSITE5x7	16 Port Terminal/Device/Console Servers - On-site Mon-Fri - 9am - 5pm	SOS5NSS16
	NSS-16 PortONSITE7X24	16 Port Terminal/Device/Console Servers - On-site 7x24	SOS7NSS16
	NSS-16 PortZPRESSREP	16 Port Terminal/Device/Console Servers - Express Replacement	SERNSS16
	NSS-16 PortZPRESSREPF	16 Port Terminal/Device/Console Servers - Express Replacement French	SERNSS16F
	NSS-32 portEXPRESSREP	32 Port Terminal/Device/Console Servers - Express Replacement	SERNSS32
	NSS-32 PortONSITE5x7	32 Port Terminal/Device/Console Serversr - On-site Mon-Fri, 9am-5pm	SOS5NSS32
	NSS-32 PortONSITE7X24	32 Port Terminal/Device/Console Servers - On-site 7x24	SOS7NSS32

	NSS-32 PortXPRESSREPF	32 Port Terminal/Device/Console Servers - Express Replacement French	SERNSS32F
	NSS-48 PortONSITE5x7	48 Port Terminal/Device/Console Servers - On-site Mon-Fri, 9am-5pm	SOS5NSS48
	NSS-48 portXPRESSREP	48 Port Terminal/Device/Console Servers - Express Replacement	SERNSS48
	NSS-48 PortXPRESSREPF	48 Port Terminal/Device/Console Servers - Express Replacement French	SERNSS48F
	NSS-48PortONSITEF7x24	48 Port Terminal/Device/Console Servers - On-site 7x24	SOS7NSS48