IOLAN SCS Console Server

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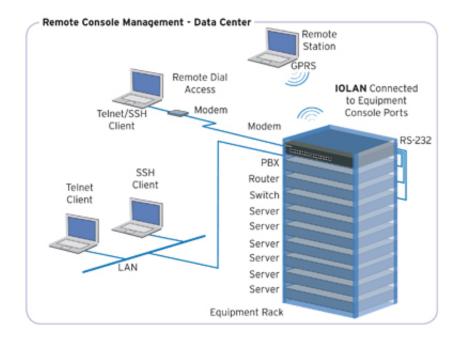
- 8, 16, 32 or 48 RS-232 serial port interfaces
- Dual 10/100/1000 Ethernet support with Redundant Path Technology
- · PCI Slot for integrated out-of-band access
- Advanced AAA security and encryption to meet all data center compliance policies



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 advanced 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 be IPv6 compatible. 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, Linux, Solaris, SCO HP UX, NCR UNIX and AIX. Perle supports the most comprehensive driver set in the industry. 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

	P							
			Re	mote Access				
Dial, direct serial	PPP, PA	P/CHAP, S	LIP					
	HTTP tu	nneling ena	ables firewall-s	safe access to rei	mote serial	devices ac	ross the int	ernet
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	Microsof	t L2TP/IPS	EC VPN client	(native to Windo	ows XP)			
client/servers	Microsof	t IPSEC VP	N Client (nati	ve to Windows Vi	sta)			
	Cisco routers with IPSEC VPN feature set							
	Perle IOLAN SDS/STS and SCS models							
		OA&M(O	perations, A	dministration ar	ıd Manage	ement)		
	SNMP V3	3 - read an	d write, Perle	MIB				
	Syslog							
	Perle De	vice Mana	ger - Windows	based utility for	large scale	deploymer	its	
	Configur	able defau	It configuration	n				
	Installatio	on Wizard						
	Set a Pe	rsonalized	Factory Defau	ult for your IOLAN	ls			
				Protocols				
	RIPV2/M Telnet, r	D5, ARP, F aw, reverse	RARP, UDP, U e Telnet, LPD,	, SSH, SSL, IPSeo DP Multicast, ICM RCP, DNS, Dyna CSLIP, RFC2217	1P, BOOTP, amic DNS, V	, DHCP, TF WINS, HTTI	TP, SFTP,	SNTP,
lardware Spe	cification	ns - IOLAN	SCS Fault To	olerant AC Mode	els			
		SCS8C	SCS16C & SCS16C-	SCS16C DAC & SCS16C-		SCS32C		SCS480
	SCS8C	DAC						

Processor MPC8349E, 400 Mhz, 750 MIPS

Memory

				memory					
RAM MB	64	64	64	64	128	128	128	128	
Flash MB	16	16	16	16	16	16	16	16	
				Interface Por	rts				
Number of Serial Ports	8	8	16	16	32	32	48	48	
Serial Port Interface	RS232	DTE on I	RJ45						
Sun / Solaris		Sun / Oracle 'Solaris' Safe - no "break signal" sent during power cycle causing costly server re-boots or downtime							
Serial Port Speeds	50bps t	50bps to 230Kbps with customizable baud rate support							
Data Bits	5,6,7,8	5,6,7,8, 9-bit protocol support							
Parity	Odd, E	Odd, Even, Mark, Space, None							
Flow Control	Hardwa	Hardware, Software, Both, None							
Serial Port Protection	15Kv Electrostatic Discharge Protection (ESD)								
Local Console Port	RS232	RS232 on RJ45 with DB9 adapter (provided)							
Network	Dual 10/100/1000-base TX Ethernet RJ45 (on all models except SCS16C-DSFP) SCS16C-DSFP: Dual SFP Slots for Copper or Fiber Network Connection								
	Software selectable Ethernet speed 10/100/1000, Auto								
	Software selectable Half/Full/Auto duplex								
Ethernet Isolation	1.5Kv N	Magnetic	Isolation						
Integrated Modem	Optiona	al V.92 m	odem card a	vailable with RJ1	1 jack				
Integrated	Optiona	al USB Ac	lapter Card	for integration of	3rd party wire	less USB M	lodem Stick	(3G)	
Wireless	•	al PC Ada GPRS/3G		or integration of 3	3rd party wirele	ess PCMCI/	A cellular ca	ards	
Fiber	Dual SI	FP slots a	ire available	on the SCS16C	-DSFP model.	For all othe	er models,	Perle	

Support supports 3rd party Gigabit Fiber Cards via the standard PCI Interface Slot. Alternatively, connect a Perle Standalone Media Converter to the IOLAN SCS Ethernet port for Fiber to Ethernet conversion.

Power	SCS8C	SCS8C DAC	SCS16C & SCS16C- DSFP	SCS16C DAC & SCS16C- DSFP DAC	SCS32C	SCS32C DAC	SCS48C	SCS48C DAC
Redundant Power		Dual power supply		Dual power supply		Dual power supply		Dual power supply
Power Supply	USA ma	odels	IEC320-C	:13 to NEMA 5-15	P line cord			
	UK mod	lels	IEC320-C	:13 to BS1363 line	e cord			
	EU mod	lels	IEC320-C	:13 to CEE 7/7 So	huko	-		
	South A	Africa mode	els IEC320-C	13 to BS546 line	cord			
	Australi	ia models	IEC320-C	:13 to AS3112 line	e cord			
Nominal Input Voltage	110/230	v AC						
Input Voltage Range	100-240	v 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 trar	nsients: 1 K	℃ (EN61000-4	4-4 Criteria B)				

Surge: 2KV (EN61000-4-5 common mode), 1KV (EN61000-4-5 differential and common modes)

			Indicators				
Power							
System I	Ready						
Network	Link activi	ity					
Serial: T	ransmit ar	nd Receive d	ata per port				
		Environ	mental Specif	ications			
58	67	62	70	65	74	69	77
130539	99587	122926	95094	111053	87829	115980	90884
0C to 55	0C to 55C, 32F to 131F						
-40C to 8	-40C to 85C, -40F to 185F						
5 to 95% (non condensing) for both storage and operation.							
SECC Zi	nc plated	sheet metal ((1 mm)				
IP30							
1U - 19"	rack, fron	t and rear mo	ounting hardwar	e included			
		Product \	Neight and Dir	nensions			
3.0 kg	3.2 kg	3.1 kg	3.4 kg	3.2 kg	3.5 kg	3.5 kg	3.6 kg
1U Rack	form facto	or - 26.4 x 43	.4 x 4.4 (cm), 10	0.38 x 17.1 x 1	.75 (in)		
			Packaging				
59 x 36 >	x 9cm						
4.0 kg	4.2 kg	4.2 kg	4.4 kg	4.4 kg	4.8 kg	4.5 kg	4.9 kg
	System I Network Serial: T 58 130539 0C to 55 -40C to 3 5 to 95% SECC Zi IP30 1U - 19" 3.0 kg 1U Rack	System Ready Network Link activ Serial: Transmit at 58 67 130539 99587 0C to 55C, 32F to -40C to 85C, -40F 5 to 95% (non con SECC Zinc plated IP30 1U - 19" rack, from 3.0 kg 3.2 kg	System Ready Network Link activity Serial: Transmit and Receive d Serial: Transmit and rear mode 58 67 62 130539 99587 122926 122926 0C to 55C, 32F to 131F -40C to 85C, -40F to 185F 1 5 to 95% (non condensing) for SECC Zinc plated set metal (1U - 19" rack, front and rear mode 10 3.0 kg 3.2 kg 3.1 kg 1U Rack form factor - 26.4 x 43 10	Power System Ready Network Link activity Serial: Transmit and Receive data per port Serial: Transmit and Receive data per port Serial: Transmit and Receive data per port Sa 67 62 70 130539 99587 122926 95094 95094 0C to 55C, 32F to 131F -40C to 85C, -40F to 185F -40C to 85C, -40F to 185F -40C to 85C, -40F to 185F -40C to 95% -40C to 85C, -40F to 185F -40C to 95% -40C to 95% <td< td=""><td>Power System Ready Network Link activity Serial: Transmit and Receive data per port Serial: Transmit and Receive data per port 58 67 62 70 65 130539 99587 122926 95094 111053 0C to $55 \subset$, $32F$ to $131F$ 111053 111053 -40C to $55 \subset$, $-40F$ to $185F$ 111053 111053 5 to $95 \lor$ (non contraining) for both storage and training) 111053 SECC Zimplated sheet metal (1 mm) 111053 IP30 Image: Not the storage and training (1 mm) 111053 101 - 19" rack, front lear metar mouting hardware into (1 mm) 110 102 - 1914 Image: Imag</td><td>Power System Ready Network Link activity Serial: Tarsmit activity Seria: Tarsmit activity Seria: Tarsmit activity Seria: Tarsmit activity <</td><td>Power System Reactive System Reactive Network Link activity Serial: Tarsmit active Seria: Tarsmit active</td></td<>	Power System Ready Network Link activity Serial: Transmit and Receive data per port Serial: Transmit and Receive data per port 58 67 62 70 65 130539 99587 122926 95094 111053 0C to $55 \subset$, $32F$ to $131F$ 111053 111053 -40C to $55 \subset$, $-40F$ to $185F$ 111053 111053 5 to $95 \lor$ (non contraining) for both storage and training) 111053 SECC Zimplated sheet metal (1 mm) 111053 IP30 Image: Not the storage and training (1 mm) 111053 101 - 19" rack, front lear metar mouting hardware into (1 mm) 110 102 - 1914 Image: Imag	Power System Ready Network Link activity Serial: Tarsmit activity Seria: Tarsmit activity Seria: Tarsmit activity Seria: Tarsmit activity <	Power System Reactive System Reactive Network Link activity Serial: Tarsmit active Seria: Tarsmit active

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)					
	CISPR 32:2015/EN 55032:2015 (Class A)					
	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: 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(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, First Edition April 1st 2003 (Recognized Component)					
Other	Reach, RoHS and WEEE Compliant Directive 2011/65/EU restriction of the use of certain hazardous substances in electrical and electronic equipment and meets the following standard:: EN 50581:2012					
	CCATS - G168387					
	ECCN - 5A992					
	HTSUS Number: 8471.80.1000					
	Perle Limited Lifetime warranty					
IOLAN DTE	IOLAN RJ45 Socket Function Direction					
RJ45 Socket	1 RTS —					

2

DTR

Pin 1			-
	3	TXD	-
	4	GND	
	5	GND	
	6	RXD	←
	7	DSR	←
	8	CTS	←

(A rolled RJ45 cable will automatically perform DTE to DCE crossover)

Optional Perle adapters for use with straight thru CAT5 cabling

Part Numbers for existing customers who want this product with traditional IOLAN pinouts

*Calculation model based on MIL-HDBK-217-FN2 @ 30 °C

Hardware Specifications - IOLAN SCS Fault Tolerant 48v DC Models

	IOLAN SCS8C DC	IOLAN SCS16C DC	IOLAN SCS32C DC	IOLAN SCS48C DC		
Processor	MPC8349E, 400 Mh	z, 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	RS232 DTE on RJ45				
Sun / Solaris	Sun / Oracle 'Solaris' Safe - no "break signal" sent during power cycle causing costly server re-boots or downtime					
Serial Port Speeds						

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 Modem	Optional V.92 modem card available – RJ11 jack					
Integrated Wireless	Optional USB Adapter Card for integration of 3rd party wireless USB Modem Sticks (3G Optional PC Adapter Card for integration of 3rd party wireless PCMCIA cellular cards (GSM/GPRS/3G)	i)				
Fiber Support	Perle supports 3rd party Gigabit Fiber Cards via the standard PCI Interface Slot. Alternatively, connect a Perle Standalone Media Converter to the IOLAN SCS Ethernet port for Fiber to Ethernet conversion.					
	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 K	/ (EN61000-4-4 Criteria	В)					
Protection	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 Speci	fications					
Heat Output (BTU/HR)	31	34	55	62				
MTBF(Hours)*	118622	112256	94603	80743				
Operating Temperature	0C to 55C, 32F to 13	31F						
Storage Temperature	-40C to 85C, -40F to	-40C to 85C, -40F to 185F						
Humidity	5 to 95% (non condensing) for both storage and operation.							
Case	SECC Zinc plated sh	neet metal (1 mm)						
Ingress Protection Rating	IP30							
Mounting	1U - 19" rack, front a	and rear mounting hard	ware included					

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)						
		Packa	aging				
Shipping Dimensions	59 x 36 x 9cm						
Shipping Weight	4.0 kg	4.0 kg	4.1 kg	4.1 kg			
		Regulatory	Approvals				
Emissions	FCC Part 15,	Subpart B, Class A					
	CFR47:2003,	Chapter 1, Part 15 Sul	opart B,(USA) Class A				
	ICES-003, Issue 4, February 2004 (Canada)						
	CISPR 32:2015/EN 55032:2015 (Class A)						
	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						
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	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(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, First Edition April 1st 2003 (Recognized Component)						
Other	Directive 2011	and WEEE Compliant /65/EU restriction of th equipment and meets		ous substances in electrical			

CCATS - G168387

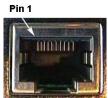
ECCN - 5A992

HTSUS Number: 8471.80.1000

Perle Limited Lifetime warranty

IOLAN DTE

IOLAN RJ45 Socket Function Direction



RJ45 Socket

	1	RTS	-
	2	DTR	
l	3	TXD	-
	4	GND	
	5	GND	
	6	RXD	←
	7	DSR	◄
	8	CTS	←

(A rolled RJ45 cable will automatically perform DTE to DCE crossover)

Optional Perle adapters for use with straight thru CAT5 cabling

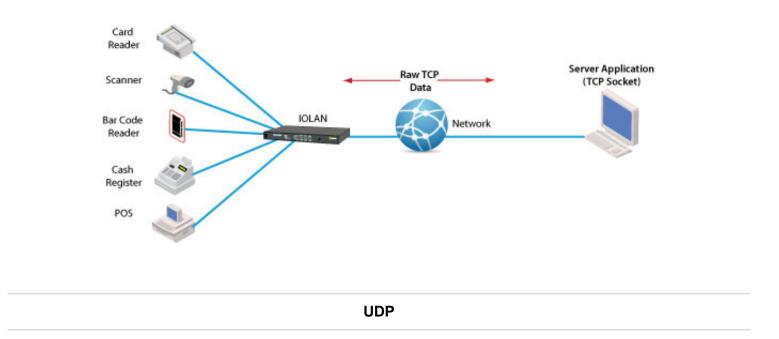
Part Numbers for existing customers who want this product with traditional IOLAN pinouts

*Calculation model based on MIL-HDBK-217-FN2 @ 30 °C

TCP

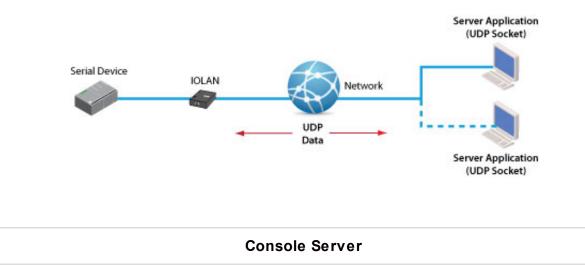
Using RAW TCP Sockets

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.



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.



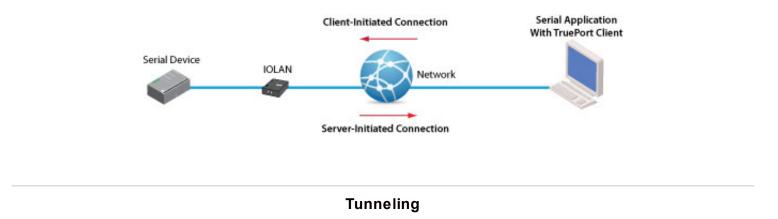
Console Management

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.



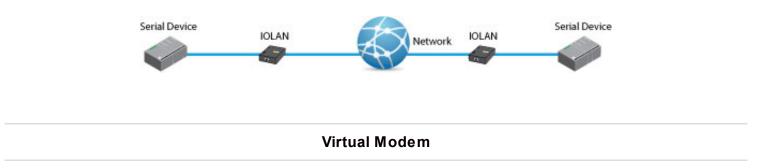
Connect Serial-based Applications with a COM/TTY Port Driver

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.



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

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.

