

IOLAN STS Rack

- 4, 8, 16 or 24 serial RS232 on RJ45 Ports
- 10/100/1000 Ethernet •
- AC power or 48v DC power models
- Advanced security feature set

Engineers and Project Managers that require a cost effective serial RS232-to-Ethernet 1U rack solution that maintains serial device protocol integrity across Ethernet must consider the IOLAN STS Rack. Having the highest performance processor available along with Perle's unique TrueSerial™ technology, the IOLAN STS Rack will provide the most authentic serial connections across Ethernet.

Ideal for

- Engineers and Project Managers requiring a high performance serial to Ethernet interface for 4 to 24 serial RS232 based devices. Connect to serial based applications over Ethernet
- IT Professionals requiring a cost-effective terminal server or serial console server for out of band management of IT equipment located in smaller data centers or remote sites

Why IOLAN STS Rack models are the preferred choice:

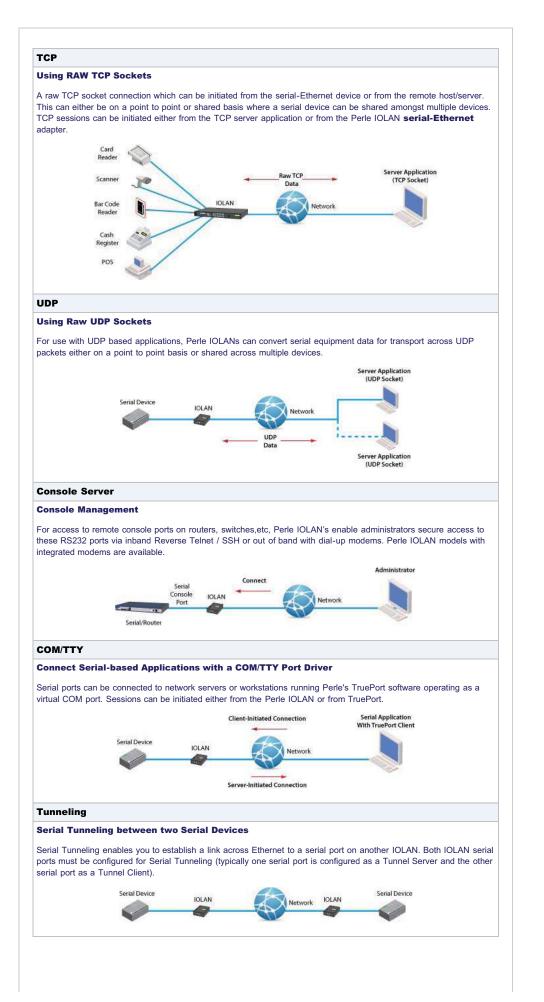
- · High performance 400 MHz, 750 MIPS, 32 bit processor with integrated hardware encryption processor for the best throughput
- Next Generation IP support (IPv6) for investment protection and network compatibility
- TrueSerial™ packet technology the most authentic serial connections across Ethernet ensures serial protocol integrity
- 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
- TruePort Perle's com/tty redirector for serial based applications operates on Windows, Vista, Linux, Solaris, SCO and Unix
- Clustering Provides a single view of all out of band console ports. Ideal for large data centers
- FIPS 140-2 Cryptographic modules meet US Government NIST compliancy
- Dynamic DNS Easy console management access from anywhere on the Internet 4, 8, 16 or 24 serial RS232 on RJ45 Ports
- Intelligent Power cycling of equipment with Perle Remote Power Switches
- 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

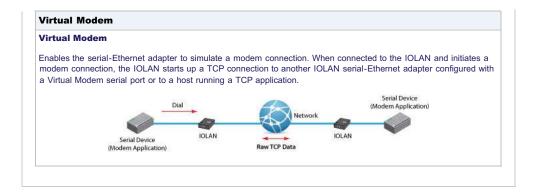
Serial Port Access	
	Connect directly using Telnet / SSH by port and IP address
	Connect with EasyPort menu by Telnet / SSH
	Use an internet browser to access with HTTP or secure HTTPS via EasyPort Web menu
	Java-free browser access to remote serial console ports via Telnet and SSH
	Ports can be assigned 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	
	Priman/Rackup host functionality anables outematic server stars to alternate to star
• · ·	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	
i cininai Server	Telnet
	SSH v1 and v2
	Riogin
	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

	Designed for Microsofte Windows*2000 Extrine For Windows*2000 Windows*2000 Windows*2000 Designed for Windows*2000 Extrine For Windows*2000				
	OpenServer UnixWare SOLARIS				
	"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 Manageme	nt				
	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 Administrativ				
	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 Dynami 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					
1 1000013	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				

	IOLAN STS4	IOLAN STS8	IOLAN STS16	IOLAN STS24	
Processor		MPC8349E, 4	00 Mhz, 750 MIPS		
Memory					
RAM MB	32	64	64	128	
Flash MB	16	16	16	16	
Interface Ports		-			
Number of Serial Ports	4	8	16	24	
Serial Port Interfase			DTE on RJ45		
Sun / Solaris	Sun break safe				
Serial Port Speeds					
Data Bits	50bps to 230Kbps with customizable baud rate support				
Parity	5,6,7,8, 9-bit protocol support Odd, Even, Mark, Space, None				
Flow Control					
Serial Port Protection			Software, Both		
			scharge Protection (ESI	,	
Local Console Port			DB9 adapter (provided)	
Network			se TX Ethernet RJ45		
	Sol		rnet speed 10/100/1000	, Auto	
		Software selectabl	e Half/Full/Auto duplex		
Ethernet Isolation		1.5Kv Mag	gnetic Isolation		
Power					
	USA models	IEC320-0	C13 to NEMA 5-15P line	e cord	
	UK models	IEC320-0	C13 to BS1363 line cord		
Power Supply	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				
Nominal Input Voltage	110/230v AC				
Input Voltage Range		100-	-240v AC		
AC Input Frequency		47	′-63Hz		
Current Consumption @ 100v(Amps)	0.11	0.11			
Current Consumption @ 240v(Amps)	0.05	0.05	0.06	0.06	
Typical Power Consumption (Watts)	11	11	12	12	
Power Line Protection		Fast transients: 1 KV	(EN61000-4-4 Criteria	B)	
	Surge: 2KV (I		n mode), 1KV (EN61000 Imon modes)	-4-5 differential	
Indicators					
LEDs		F	Power		
	System Ready				
	Network Link activity				
	Serial: Transmit and Receive data per port				
Environmental Specificatio	ns				
Heat Output (BTU/HR)	38	38	42	42	
MTBF (Hours)	179425	174418	160992	130470	
Operating Temperature				100-110	
Storage Temperature	0C to 55C, 32F to 131F -40C to 85C, -40F to 185F				
•	E +- (peration	
Humidity	5 10 5		for both storage and op		
Ingress Protection Rating			IP30	aludad	
Mounting		тэ rack, front and re	ar mounting hardware ir	iciuded	
Product Weight and Dimens					
Weight	2.8 kg	3 kg	3.1 kg	3.1 kg	

Shipping Dimensions	59 x 36 x 9cm			
Shipping weight	3.96 kg	3.98 kg	4.0 kg	4.2 kg
Regulatory Approvals				
	FCC Part 15, Subpart B, Class A			
	CFR47:2003, Chapter 1, Part 15 Subpart B,(USA) Class A			
Emissions	ICES-003, Issue 4, February 2004 (Canada)			
	EN55022:1998 + A1:2000 + A2:2003 Class A			
	EN61000-3-2 : 1995, Limits for Harmonic Current Emissions			
	EN610	000-3-3 : 1995, Limits c	of Voltage Fluctuations	and Flicker
		EN55024:1998 -	+ A1:2001 + A2:2003	
		EN61000-4-2: E	lectrostatic Discharge	
	E		romagnetic Field Modu	lated
Immunity		EN61000-4-4	1: Fast Transients	
		EN6100	0-4-5: Surge	
	EN61000-4-6: RF Continuous Conducted			
	EN61000-4-8: Power-Frequency Magnetic Field			
			Dips and Voltage Interru	
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)			
	RoHS - 2002/95/EC Directive			
	WEEE - 2002/96/EC Directive			
Other	CCATS - G052929			
Outor	ECCN - 5A992A			
	HTSUS Number: 8471.80.1000			
	Perle Lifetime warranty			
	IOLAN	RJ45 Socket	Function	Direction
		1	DCD	-
		2	RTS	-
IOLAN DTE		3	DSR	-
Pin 1		4	TXD	-
J. manner T		5	RXD	+
اللغوب سيرسا ا		6	GND	
RJ45 Socket		7	CTS	-
		8	DTR	-
	Optional Perle adapters for use with straight thru CAT5 cabling			
	Make your own cables			





	Description	Power Cord	Product Part Number
			04030464
	IOLAN STS24 - 24 x RJ45 serial ports, 10/100/1000 Ethernet, 1U rack mount, RS232 interface, advanced feature set	UK	04030461
		EU	04030462
		SA	04030465
		AUS	04030466
	IOLAN STS16 - 16 x RJ45 serial ports, 10/100/1000 Ethernet, 1U rack mount, RS232 interface, advanced feature set	USA	04030444
		UK	04030441
		EU	04030442
numummin)		SA	04030445
		AUS	04030446
	IOLAN STS8 - 8 x RJ45 serial ports, 10/100/1000 Ethernet, 1U rack mount, RS232 interface, advanced feature set	USA	04030414
		UK	04030411
		EU	04030412
		SA	04030415
		AUS	04030416
	IOLAN STS4 - 4 x RJ45 serial ports, 10/100/1000 Ethernet, 1U rack mount, UK RS232 interface, advanced feature set EU AUS	USA	04030404
		04030401	
		EU	04030402
		AUS	04030406
		SA	04030405

Accessories:

Accessories				
	3m Cbl- Straighthru	3 meter RJ45 to RJ45 CAT5 Straight-thru cable #1100360-10	04005120	
EE	IOLAN RACK DIN RAIL	DIN Rail Mounting Kit for all IOLAN Rack models	O 04032490	
	Starter Kit (8- wire)	IOLAN Starter Kit (8-wire): 1x RJ-45 to DB-25 DTE Male adapter, 1x RJ-45 to DB-25 DCE Male adapter, 1x RJ-45 to DB-25 DTE Female adapter, 1x RJ-45 to DB-9 Male DTE adapter, 1x RJ-45 to DB-9 Female DTE adapter and 1x RJ45M-RJ45F Sun/Cisco crossover adapter	04007000	
		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	

	nce agreements - Console Server / Device Server / Terminal Server e click here to check for maintenance availability in your region	
NSS- 4 PortXPRESSREP	4 Port Terminal/Device/Console Servers - Express Replacement	SERNSS04
NSS- 4 PortXPRESSREPF	4 Port Terminal/Device/Console Servers - Express Replacement French	SERNSS04F
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-24 PortONSITE5x7	24 Port Terminal/Device/Console Servers - On-site Mon-Fri, 9am - 5pm	SOS5NSS24
NSS-24 PortONSITE7X24	24 Port Terminal/Device/Console Servers - On-site 7x24	SOS7NSS24
NSS-24 PortXPRESSREP	24 Port Terminal/Device/Console Servers - Express Replacement	SERNSS24
NSS-24 PortXPRESSREPF	24 Port Terminal/Device/Console Servers - Express Replacement French	SERNSS24F