IOLAN SCG M Secure Console Server

perle.com/products/iolan-scgm-console-server.shtml

Out-of-Band IT Infrastructure Management with integrated Modem

- 18, 34 or 50 Console Management Ports
- Modular design supports RS232/RS422/RS485 RJ45 and USB 3.0 Interfaces
- Integrated v.92 modem for out of band access
- Dual 10/100/1000 Network Connection with RJ45 Copper and
- ZTP & PerleVIEW Central Management Software simplifies configuration, administration, monitoring, and troubleshooting.
- Cloud Hosting -- Deploy and manage your network from the cloud
- Advanced routing engine with AAA security and SSH/SSL encryption to meet all data center compliance policies
- Dual AC or Dual Feed 48vDC Power for Fault-tolerant uptime

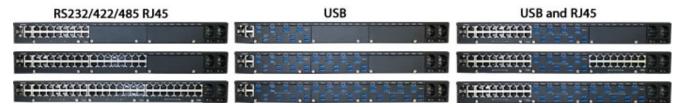
The Perle IOLAN SCG M Console Servers provide data center managers with the ultimate solution for redundant, secure remote console management of any device with an RS232 RJ45 or USB console port. And, the IOLAN G16 RS-Multi Card, with 16 x software-selectable RS232/422/485 RJ45 interfaces enables organizations to connect a variety of serial-based devices to Ethernet. The integrated V.92 modem support provides multiple alternate access methods to manage, maintain, and troubleshoot critical network devices. With an expandable modular hardware platform, integrated firewall, twofactor authentication, advanced failover to multiple networks, and Zero Touch Provisioning (ZTP), your IT professionals and network operations center (NOC) personnel will have everything they need to easily perform secure remote data center management and out-of-band management of IT assets from anywhere in the world. This cost-effective 1U rack solution also maintains protocol integrity across Ethernet and adds full IPv4/IPv6 routing capabilities with support for RIP, OSPF, and BGP protocols.

Modular Hardware Platform enables Console Management of all IT assets

The modular IOLAN SCG M Console Server provides up to 50 Console Management ports supporting USB, RS232, RS422, and RS485 interfaces. The modular design of the IOLAN SCG allows the user to swap, upgrade, and scale to any combination of 16-port module cards to support all types of admin ports in one Console Management solution.



IOLAN SCG Interface Options



The Perle IOLAN SCG is the only industry solution that can support up to 50 high-density USB 3.0 ports that are compatible with all manufacturers' USB solutions, including Cisco routers, switches, firewalls, servers (Solaris, Windows, Unix and Linux) PBXs, network storage equipment and security appliances.

The RS232 RJ45 ports are software configurable to use straight thru or rolled cables to connect your Cisco equipment and support DCD pin can be configured for 3rd party devices that need this extra signal. The software-selectable RS232/422/485 RJ45 interfaces simplify configuration and eliminate mechanical tampering associated with DIP switches. This mean the Perle IOLAN SCG supports more serial devices than any other Console Server on the market.

Advanced Network Security, Authentication, and Data Encryption

2 Factor Authentication (2FA) ensures access to equipment and data is limited to authorized users, while remote authentication (RADIUS, TACACS+, & LDAP) management, enables integration with enterprise-grade systems to control access to devices in the field.

The **built-in firewall** offers intuitive policies to protect inside networks from unauthorized access. The firewall also allows inside networks to be separated from each other. If there are network resources that need to be available to an outside user, such as a web or FTP server, these resources can be placed on a separate network behind the firewall in a demilitarized zone (DMZ).

Network data transmissions and access to remote console admin ports on IT equipment are protected through standard **encryption tools** such as Secure Shell (SSH) and Secure Sockets Layer (TLS/SSL). By using encryption technologies, an IOLAN SCR Console Server protects sensitive and confidential data before being sent across a corporate Intranet or public Internet. For compatibility with peer encryption devices, all the major encryption ciphers such as AES, 3DES, RC4, RC2, and CAST128 are fully supported.

With multiple concurrent VPN sessions, OpenVPN, and IPSec VPN, robust authentication and encryption of IP packets is provided at the network layer of the OSI model. This is ideal for multi-vendor interoperation within a network, providing flexibility and the ability to match the right solution for a particular application.

Multiple Out-of-Band (OOB) access methods

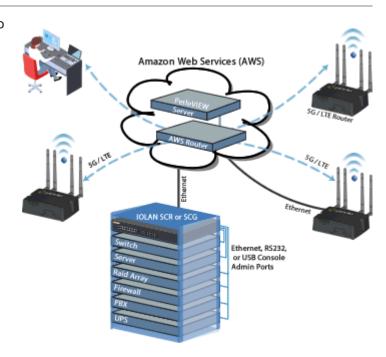
Every IOLAN SCG M Console Server comes with two secure remote access methods to critical network devices.

- The on-board RJ11 V.92 modem connection provides a secure and reliable out-of-band connection over the POTS network. This means that should IP network access become unavailable, the IOLAN SCG M can serve as the necessary alternate access method to troubleshoot and reboot critical network devices.
- 2. Any dual combination of the two 10/100/1000Base-T Copper Ports and two 100/1000Base-X SFP Fiber Ports can be used to meet your unique network access requirements. This design provides users with a flexible, cost-effective solution to transmit data from mission-critical equipment over Copper or Fiber based Ethernet networks. When connecting to a fiber network, the pluggable SFP ports allow for flexible network configurations using SFP Optical Transceivers supplied by Perle, Cisco or other manufacturers of MSA compliant SFPs.

High Availability Access

To simplify management and respond swiftly to issues, network administrators require access to all console ports via a single portal view. Perle's cloud-based centralized management solution puts all your network and IT infrastructure into a single application and provides secure reliable access and visibility during normal operations and critical network failures. Scalable to suit any business requirement, Cloud Centralized Management reduces human error and guarantees repeatability.

The IOLAN SCG M also has built-in fault-tolerant capabilities to ensure secure and reliable access for managing important mission-critical equipment. Redundant Path technology assures availability to Console



Management ports through Active Standby or Dual Network Access modes. Virtual Router Redundancy Protocol (VRRPv3) enables a group of devices to form a single virtual device to provide network redundancy. The dual AC power supply ensures that console management is available even if the primary AC power source fails. And, protection against electrostatic discharges and power surges is provided with robust 15Kv ESD protection circuitry on each console port.

Easy Set-up and Configuration with Front Panel Display and Keyboard

The IOLAN SCG M is incredibly easy to get up and running on the network. The Front Panel Display and Keyboard allows a user to assign an IP address directly through the display without a direct PC connection. The rest of the unit can then be configured over the network using a variety of configurator options including PerleVIEW, WebManager, CLI, etc.

The Front Panel Display is also a convenient way to monitor and trouble-shoot RS232, USB, and Ethernet port activity.

For large scale roll-outs, the Micro SD Card slot can be used to back-up and restore configuration files as well as load new firmware. Perle is committed to eliminating configuration hassles for all IOLAN's on your IP network.

Flexible and Reliable Serial to Ethernet Connections

An IOLAN SCG Console Server is ideal for connecting serial based COM port, UDP or TCP socket based applications to remote devices. Perle's TruePort re-director provides fixed TTY or COM ports to serial based applications enabling communication with remote devices connected to Perle IOLAN's either in encrypted or clear text modes.

TrueSerial® packet technology delivers the most authentic serial connections across Ethernet for serial protocol integrity.

You can also tunnel serial data between devices across an IP network.

Advanced IP Technology

With support for IPv6, the IOLAN SCG 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.

More reasons that make the IOLAN SCG Console Servers the preferred choice:

- 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
- Java-free browser access to remote serial console ports via Telnet and SSH.
- Dynamic DNS Easy console management access from anywhere on the Internet.

Lifetime Warranty

All Perle IOLAN SCG 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. With the Perle IOLAN SCG deploying and upgrading new services and equipment while minimizing capital expenditures, is easy.

Software Features - IOLAN SCG M Secure Console Server

Management & Configuration

Zero Touch Provisioning (ZTP): automates the provisioning of both the configuration and firmware files through DHCP/Bootp Options

PerleView Central Management: a web-based server configuration tool that simplifies setup and deployment and gives network managers visibility and control over network configurations at remote sites.

Management & Monitoring: HTTP/HTTPS, CLI/Piping, Telnet, SNMPv1/v2/v3, RESTful API, TACACS+

Multiple firmware versions can be saved on the unit. This allows the customer to change between older and newer firmware versions without the need to download.

Multiple configuration files can be stored on the unit., This allows the customer to easily switch between older and newer configurations during testing or production deployments.

Automatic check for software updates available over FTP, HTTP, HTTPS, SCP, SFTP, and TFTP

LLDP-Link Layer Discovery Protocol, as per IEEE 802.1AB, is a neighbor discovery protocol that is used for network devices to advertise information about themselves to other devices on the network. This protocol runs over the data-link layer, which allows two systems running different network layer protocols to learn about each other via TLVs (Type-Length-Value).

RESTful API uses HTTP requests to access and use IOLAN statistics and configuration data. Any of the CLI commands can be executed through a RESTFul API script that cn be controlled externally from a server.

Connectivity Watchdog can instruct the IOLAN to take different actions (i.e. reboot) if the network connectivity to a pre-define IP address is lost. This is helpful for situations when the IOLAN is deployed on remote locations hard to service if the network connectivity is lost.

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

Dynamic DNS with DYNDNS.org

Installation Wizard

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.

IPSEC VPN client/servers: Microsoft IPSEC VPN Client, Cisco routers with IPSEC VPN feature set, Perle IOLAN SDS, SDG, STS, STG, SCS, SCG, and SCR models

OpenVPN: Clients & Servers

Logging, Reporting & Alerts

Email alert notification

Syslog, Event Type, Report Type, Alerts & Monitoring, Triggers Status Screen Report, Data Usage, Diagnostic, Login Banner

Accessing Console Management Ports (Serial & Ethernet)

Serial Protocols: PPP, PAP/CHAP, SLIP

Connect directly using Telnet / SSH by port and IP address

Use an internet browser to access with HTTP or secure HTTPS

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

Ports can be assigned a specific IP address

Multisession capability enables multiple users to access ports simultaneously

Multihost access enables multiple hosts/servers to share serial ports

Console Management Functions

Sun / Oracle Solaris Break Safe

Local port buffer viewing - 256K bytes per port

External port buffering via NFS, encrypted NFS and Syslog

Event notification

Windows Server / Azure - SAC support GUI access to text-based Special Administrative Console

Terminal Server Functions

Telnet

SSH v1 and v2
Auto session login
LPD, RCP printer
MOTD - Message of the day
Serial to Ethernet functions
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 provides fixed TTY or COM ports to serial based applications enabling communication with remote devices connected to Perle IOLAN's either in encrypted or clear text modes.
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
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
Redundancy
Load Balancing
VPN Failover

Virtual Router Redundancy Protocol (VRRPv3) enables a group of devices to form a single virtual device to provide network redundancy

Primary/Backup host functionality enables automatic connections to alternate hosts

Routing / Switching Protocols

The IOLAN can be configured for any of the major routing protocols for an easy integration within the data center Ethernet backbone: RIP/RIPNg, OSPFv3, BGP-4, NAT, IPv4/IPv6, Static Routing, IPv6 Encapsulations (GRE, 6in4), Port Routing, STP, MSTP

IPv6 to IPv4 translation is fully supported for environments where the Ethernet data backbone is run on IPv6 and the port management is run on IPv4

Using NAT for enhanced security, the IOLAN can map a single IP address, across all or several of it's Ethernet ports.

IP Applications

DDNS, DNS Proxy / Spoofing, relay, client, Opt. 82,

NTP & SNTP (versions 1, 2, 3, 4)

DHCP / DHCPv6 server / DHCP Snooping & BOOTP

VLAN & VPN

VLAN, OpenVPN, VPN Failover (16 concurrent VPN tunnels)

IPSec VPN: NAT Traversal, ESP authentication protocol

Firewall Features

Ability to set up firewalls to restrict incoming and outgoing packets

Built in Zone-Based Policy Firewall for local security and traffic filtering.

Access Control Lists (list & ranges & time)

Filter based on MAC Address, IP, Port, Protocol, User

IEEE 802.1x Authentication and Port Security can be enabled for any Ethernet port for increased security port access.

Layer 2 MAC address filtering

Port Forwarding

BGP Communities

Security Features

AAA Security via remote authentication (Radius, TACACS+, & LDAP)

Trusted host filtering (IP filtering), allowing only those hosts that have been configured in the host table access to the router.

Ability to disable services (for example, Telnet, TruePort, Syslog, SNMP, Modbus, HTTP) for additional security

Ability to disable Ping responses

SSH client/server connections (SSH 1 and SSH 2). Supported ciphers are Blowfish, 3DES, AES-CBC, AES-CTR, AES-GMC, CAST, Arcfour and ChaCha20-Poly1305. Ability to individually disable network services that won't be used by the SSH client/server connections.

SSL/TLS client/server data encryption (TLS v1.2)

SSL Peer authentication

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

VPN: OpenVPN & IPSec VPN (NAT Traversal, ESP authentication protocol)

Certificate Support (X.509)

Certificate authority (CA) list

Local database

RIP authentication (via password or MD5)

2 Factor (2F) Authentication over e-mail enhances administration access security

Management Access Control

Demilitarized Zone (DMZ)

Secure HTTP/HTTPS/FTP/Telnet Authentication Proxy

SNMP v3 Authentication and Encryption support
IP Address filtering
Disable unused daemons
Active Directory via LDAP

Protocols

Sun / Solaris

IPv6, IPv4, TCP/IP, Reverse SSH, SSH, SSL, IPSec/IPv4, IPSec/IPv6, IPSec, 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 SCG M Secure Console Server

Processor	1750 MIPS, 500 MHz core 32 bit ARM processor, with integrated hardware encryption processor
Memory	
RAM MB	1000
Flash MB	4000
Interface Ports	
Integrated Device Management Ports	2 x USB 3.0
Modular Device Management Ports	Create 18, 34, or 50-port SCG Console Servers using any combination of 16-port module cards to support all types of admin ports in one Console Management solution:
	 IOLAN G16 RS232 Card: Interface Module with 16 x RS232 RJ45 interfaces with software configurable Cisco pinouts IOLAN G16 USB Card: Interface Module with 16 x USB 3.0 (Type-A) Console Management Ports. IOLAN G16 RS-Multi Card: Interface Module with 16 x software selectable RS232/422/485 RJ45 interfaces. RS485 Full and Half duplex

Sun / Oracle 'Solaris' Safe - no "break signal" 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	1 x RS232 RJ45 1 x Micro USB with DB9 adapter
Network	2 x 10/100/1000Base-T RJ45 Copper 2 x 100/1000Base-X Fiber SFP Ports Note: Any combination of two network ports can be used. Software selectable Ethernet speed 10/100/1000, Auto Software selectable Half/Full/Auto duplex
Micro SD Card slot	Yes
Ethernet Isolation	1.5Kv Magnetic Isolation
Integrated Modem	Integrated V.92/V.90 modem with RJ11 jack
Front Panel LCD I	Display and Keyboard Indicators
	Network Link Activity Serial Tx/Rx data per port
LED Indicators	
	System Ready Network Link Activity
Environmental Sp	pecifications
Heat Output (BTU/HR)	IOLAN SCG18: 54.59 IOLAN SCG34: 76.77 IOLAN SCG50: 98.95

MTBF (Hours)	80,728 Calculation model based on N	/IIL-HDBK-217-FN2 @ 30 °С
Operating Temperature	0C to 55C, 32F to 131F	
Storage Temperature	-40C to 85C, -40F to 185F	
Humidity	5 to 95% (non condensing) fo	r both storage and operation.
Case	SECC Zinc plated sheet meta	al (1 mm)
Ingress Protection Rating	IP30	
Mounting	1U - 19" rack, front and rear r	nounting hardware included
Regulatory Appr	ovals	
Emissions	FCC 47 Part 15 Subpart B Cl ICES-003 (Canada) EN55011 (CISPR11) EN55032 (CISPR32) EN61000-3-2 Limits for Harm EN61000-3-3 Limits of Voltag	onic Current Emissions
Immunity	EN55024 EN 61000-4-2 (ESD): Contact EN 61000-4-3 (RS): EN 61000-4-4 (EFT): EN 61000-4-5 (Surge): EN 61000-4-6 (CS): EN 61000-4-8 (PFMF) EN 61000-4-11	t:
Safety	UL/EN/IEC 62368-1 (previous CAN/CSA C22.2 No. 62368-1	•
Other	Reach, RoHS and WEEE Col CCATS - G168387 ECCN - 5A992 HTSUS Number: 8517.62.002 Perle Limited Lifetime warran	20
Power	Dual AC Models	Dual Feed DC Models

Power Supply	USA: IEC320-C13 to NEMA 5-15P line cord UK: IEC320-C13 to BS1363	Terminal Blocks with screw terminals accommodating 28 - 12 AWG wire sizes.
	line cord EU: IEC320-C13 to CEE 7/7	
	Schuko	
	South Africa: IEC320-C13 to	
	BS546 line cord	
	Australia: IEC320-C13 to	
	AS3112 line cord	
Nominal Input Voltage	110/230v AC	48v DC
Input Voltage Range	100-240v AC	24- 60v DC
AC Input Frequency	47-63Hz	-
Current	@ 100v (Amps)	@ 48v DC (Amps)
Consumption	IOLAN SCG18: 0.17	IOLAN SCG18: 0.17
	IOLAN SCG34: 0.23	IOLAN SCG34: 0.23
	IOLAN SCG50: 0.29	IOLAN SCG50: 0.29
	@ 240v (Amps)	
	IOLAN SCG18: 0.06	
	IOLAN SCG34: 0.09	
	IOLAN SCG50: 0.12	
	16 Watts	
Typical Power Consumption	Note: USB cards can use an 8 Watts total	additional power of 2.5 Watts per port up to a max of
Power Line	Fast transients: 1 KV (EN610	000-4-4 Criteria B)
Protection	Surge: 2KV (EN61000-4-5 common modes)	ommon mode), 1KV (EN61000-4-5 differential and
Weight and		
Dimensions	Dual AC Models	Dual Feed DC Models
Product Weight	IOLAN SCG18: 3.26 kg /	IOLAN SCG18: 3.17 kg / 6.99 lbs
	7.19 lbs	IOLAN SCG34: 3.34 kg / 7.36 lbs
	IOLAN SCG34: 3.43 kg /	IOLAN SCG50: 3.50 kg / 7.72 lbs
	7.56 lbs	
	IOLAN SCG50: 3.60 kg /	
	7.94 lbs	

Product Dimensions	1U Rack form factor - 26.4 x 43.4 x 4.4 (cm), 10.38 x 17.1 x 1.75 (in)					
Shipping Weight	IOLAN SCG18: 4.20 kg / 9.26 lbs IOLAN SCG34: 4.37 kg / 9.63 lbs IOLAN SCG50: 4.54 kg / 10.01 lbs	IOLAN SCG18: 4.11 kg / 9.06 lbs IOLAN SCG34: 4.28 kg / 9.43 lbs IOLAN SCG50: 4.44 kg / 9.79 lbs				
Shipping	59 x 36 x 9 (cm), 23.22 x 14	.17 x 3.54 (in)				

Dimensions

IOLAN G16 RS232 Card RJ45 Serial Connector Pinout - DCE mode (Straight-through)

		Pinout	Direction	EIA-232
		1	in	CTS
		2	in	DSR
		3	in	RxD
		4		GND
RJ45 Socket	Pin 1	5		not used
		6	out	TxD
		7	out	DTR
		8	out	RTS

Optional Perle adapters for use with straight thru CAT5 cabling

IOLAN G16 RS232 Card RJ45 Serial Connector Pinout - DTE mode (Rolled)

Pinout	Direction	EIA-232
1	out	RTS
2	out	DTR
	1	

Pin 1	3	out	TxD
	4		GND
	5	in	DCD
	6	in	RxD
	7	in	DSR
	8	in	CTS

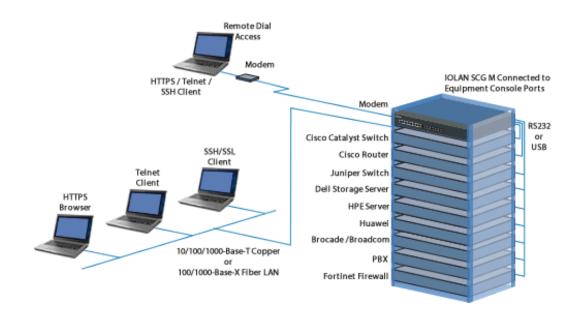
(A rolled RJ45 cable will automatically perform DTE to DCE crossover)

IOLAN G16 RS-Multi Card RJ45 Serial Connector Pinout

	Pinout	Direction	EIA- 232	EIA- 422	EIA-485 Full Duplex	EIA-485 Half Duplex
	1	out	RTS	TxD+	TxD+	DATA+
	2	out	DTR			
	3	out	TxD	TxD-	TxD-	DATA-
	4		GND	GND	GND	GND
RJ45	5		GND	GND	GND	GND
Socket Pin 1	6	in	RxD	RxD+	RxD+	
	7	in	DSR			
	8	in	CTS	RxD-	RxD-	

Optional Perle adapters for use with straight thru CAT5 cabling

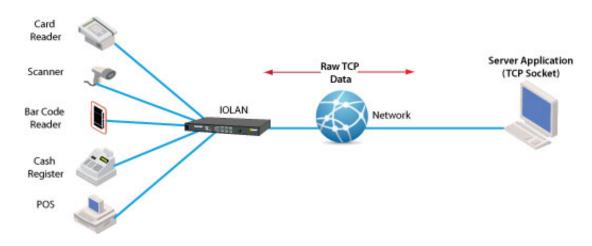
Data Center Console Management



TCP

Using RAW TCP Sockets

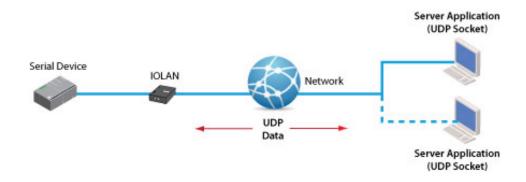
A raw TCP socket connection which can be initiated from the serial-Ethernet device or from the remote host/server. This can either be on a point to point or shared basis where a serial device can be shared amongst multiple devices. TCP sessions can be initiated either from the TCP server application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

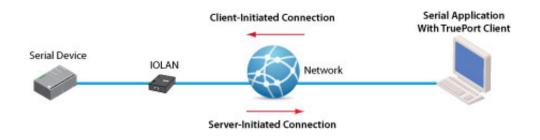
For access to remote console ports on routers, switches, etc, Perle IOLAN's enable administrators secure access to these RS232 ports via inband Reverse Telnet / SSH or out of band with dial-up modems. Perle IOLAN models with integrated modems are available.



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.



Product	Description	Power	Product
Image		Cord	Number
344-2005	IOLAN SCG18 R-M Console Server: 16 x RS232 RJ45 interfaces with software configurable Cisco pinouts, 2 x USB 3.0 (Type-A) Console Management Ports, Front Panel Display and Keyboard, 2 x auto-sensing 10/100/1000 Ethernet Combo Ports (RJ45 or SFP), integrated RJ45 V.92 modem, Micro SD Card Slot, Micro USB and RS232 RJ45 Console Admin Ports, advanced data encryption, user authentication and event management security features included, IPv6, COM port redirector, 15kv ESD, Expandable using IOLAN G16 Cards, Dual AC Power	USA UK EU SA AUS NONE	04032824 04032821 04032822 04032825 04032826 04032828

Product Image	Description	Power Cord	Product Number
3-4	IOLAN SCG18 R-MD Console Server: 16 x RS232 RJ45 interfaces with software configurable Cisco pinouts, 2 x USB Ports, Front Panel Display and Keyboard, 2 x auto-sensing 10/100/1000 Ethernet Combo Ports (RJ45 or SFP), integrated RJ45 V.92 modem, Micro SD Card Slot, Micro USB and RS232 RJ45 Console Admin Ports, IPv4/IPv6 routing (RIP, OSPF, BGP), ZTP, REST / Python, Cloudhosting, advanced data encryption, user authentication and event management security features included, COM port redirector, 15kv ESD, Expandable using IOLAN G16 Cards, Dual Feed DC Power.	None	04033950
н	IOLAN SCG18 U-M Console Server: 18 x USB 3.0 (Type-A) Console Management Ports, Front Panel Display and Keyboard, 2 x autosensing 10/100/1000 Ethernet Combo Ports (RJ45 or SFP), integrated RJ45 V.92 modem, Micro SD Card Slot, Micro USB and RS232 RJ45 Console Admin Ports, advanced data encryption, user authentication and event management security features included, IPv6, COM port redirector, 15kv ESD, Expandable using IOLAN G16 Cards, Dual AC Power	USA UK EU SA AUS NONE	04033184 04033181 04033182 04033185 04033186 04033188
1400000	IOLAN SCG34 R-M Console Server: 32 x RS232 RJ45 interfaces with software configurable Cisco pinouts, 2 x USB 3.0 (Type-A) Console Management Ports, Front Panel Display and Keyboard, 2 x auto-sensing 10/100/1000 Ethernet Combo Ports (RJ45 or SFP), integrated RJ45 V.92 modem, Micro SD Card Slot, Micro USB and RS232 RJ45 Console Admin Ports, advanced data encryption, user authentication and event management security features included, IPv6, COM port redirector, 15kv ESD, Expandable using IOLAN G16 Cards, Dual AC Power	USA UK EU SA AUS NONE	04032944 04032941 04032942 04032945 04032946 04032948
	IOLAN SCG34 R-MD Console Server: 32 x RS232 RJ45 interfaces with software configurable Cisco pinouts, 2 x USB Ports, Front Panel Display and Keyboard, 2 x auto-sensing 10/100/1000 Ethernet Combo Ports (RJ45 or SFP), integrated RJ45 V.92 modem, Micro SD Card Slot, Micro USB and RS232 RJ45 Console Admin Ports, IPv4/IPv6 routing (RIP, OSPF, BGP), ZTP, REST / Python, Cloud-hosting, advanced data encryption, user authentication and event management security features included, COM port redirector, 15kv ESD, Expandable using IOLAN G16 Cards, Dual Feed DC Power.	None	04034070

Product Image	Description	Power Cord	Product Number
HO 278-10	IOLAN SCG34 U-M Console Server: 34 x USB 3.0 (Type-A) Console Management Ports, Front Panel Display and Keyboard, 2 x autosensing 10/100/1000 Ethernet Combo Ports (RJ45 or SFP), integrated RJ45 V.92 modem, Micro SD Card Slot, Micro USB and RS232 RJ45 Console Admin Ports, advanced data encryption, user authentication and event management security features included, IPv6, COM port redirector, 15kv ESD, Expandable using IOLAN G16 Cards, Dual AC Power	USA UK EU SA AUS NONE	04033304 04033301 04033302 04033305 04033306 04033308
14:110111	IOLAN SCG34 RU-M Console Server: 16 x RS232 RJ45 interfaces with software configurable Cisco pinouts, 18 x USB 3.0 (Type-A) Console Management Ports, Front Panel Display and Keyboard, 2 x auto-sensing 10/100/1000 Ethernet Combo Ports (RJ45 or SFP), integrated RJ45 V.92 modem, Micro SD Card Slot, Micro USB and RS232 RJ45 Console Admin Ports, advanced data encryption, user authentication and event management security features included, IPv6, COM port redirector, 15kv ESD, Expandable using IOLAN G16 Cards, Dual AC Power	USA UK EU SA AUS NONE	04033544 04033541 04033542 04033545 04033546 04033548
***************************************	IOLAN SCG50 R-M Console Server: 48 x RS232 RJ45 interfaces with software configurable Cisco pinouts, 2 x USB 3.0 (Type-A) Console Management Ports, Front Panel Display and Keyboard, 2 x auto-sensing 10/100/1000 Ethernet Combo Ports (RJ45 or SFP), integrated RJ45 V.92 modem, Micro SD Card Slot, Micro USB and RS232 RJ45 Console Admin Ports, advanced data encryption, user authentication and event management security features included, IPv6, COM port redirector, 15kv ESD, Dual AC Power	USA UK EU SA AUS NONE	04033064 04033061 04033062 04033065 04033066 04033068
14-11111-1111-1111-111-111-111-111-111-	IOLAN SCG50 R-MD Console Server: 48 x RS232 RJ45 interfaces with software configurable Cisco pinouts, 2 x USB Ports, Front Panel Display and Keyboard, 2 x auto-sensing 10/100/1000 Ethernet Combo Ports (RJ45 or SFP), integrated RJ45 V.92 modem, Micro SD Card Slot, Micro USB and RS232 RJ45 Console Admin Ports, IPv4/IPv6 routing (RIP, OSPF, BGP), ZTP, REST / Python, Cloudhosting, advanced data encryption, user authentication and event management security features included, COM port redirector, 15kv ESD, Dual Feed DC Power.	None	04034190

Product Image	Description	Power Cord	Product Number
Hay also de la constantina della constantina del	IOLAN SCG50 U-M Console Server: 50 x USB 3.0 (Type-A) Console Management Ports, Front Panel Display and Keyboard, 2 x autosensing 10/100/1000 Ethernet Combo Ports (RJ45 or SFP), integrated RJ45 V.92 modem, Micro SD Card Slot, Micro USB and RS232 RJ45 Console Admin Ports, advanced data encryption, user authentication and event management security features included, IPv6, COM port redirector, 15kv ESD, Dual AC Power	USA UK EU SA AUS NONE	04033424 04033421 04033422 04033425 04033426 04033428
	IOLAN SCG50 RRU-M Console Server: 32 x RS232 RJ45 interfaces with software configurable Cisco pinouts, 18 x USB 3.0 (Type-A) Console Management Ports, Front Panel Display and Keyboard, 2 x auto-sensing 10/100/1000 Ethernet Combo Ports (RJ45 or SFP), integrated RJ45 V.92 modem, Micro SD Card Slot, Micro USB and RS232 RJ45 Console Admin Ports, advanced data encryption, user authentication and event management security features included, IPv6, COM port redirector, 15kv ESD, Dual AC Power	USA UK EU SA AUS NONE	04033664 04033661 04033662 04033665 04033666 04033668
	IOLAN SCG50 RUU-M Console Server: 16 x RS232 RJ45 interfaces with software configurable Cisco pinouts, 34 x USB 3.0 (Type-A) Console Management Ports, Front Panel Display and Keyboard, 2 x auto-sensing 10/100/1000 Ethernet Combo Ports (RJ45 or SFP), integrated RJ45 V.92 modem, Micro SD Card Slot, Micro USB and RS232 RJ45 Console Admin Ports, advanced data encryption, user authentication and event management security features included, IPv6, COM port redirector, 15kv ESD, Dual AC Power	USA UK EU SA AUS NONE	04033784 04033781 04033782 04033785 04033786 04033788

Accessories

Accessory Image	Description	Model Number	Accessory Number
	3 meter RJ45 to RJ45 CAT5 Straight-thru cable #1100360-10	3m Cbl-Straighthru	04005120

Accessory Image	Description	Model Number	Accessory Number
	C Model Kit Includes: (1) RJ-45 to DB-25 DTE Male adapter, (1) RJ-45 to DB-25 DCE Male adapter, (1) RJ-45 to DB-25 DTE Female adapter, (1) RJ-45 to DB-9Male DTE adapter, (1) RJ-45 to DB-9 Female DTE adapter and (1) RJ45M-RJ45F Sun/Cisco crossover adapter.	IOLAN C Model Wiring Starter Kit	04007070
	IOLAN G16 RS232 Card: Interface Module with 16 x RS232 RJ45 interfaces with software configurable Cisco pinouts. Field upgradeable accessory to add ports to expandable IOLAN SCG Console Servers.	IOLAN G16 RS232 Card	04033800
	IOLAN G16 USB Card: Interface Module with 16 x USB 3.0 (Type-A) Console Management Ports. Field upgradeable accessory to add ports to expandable IOLAN SCG Console Servers.	IOLAN G16 USB Card	04033810
	IOLAN G16 RS-Multi Card: Interface Module with 16 x software selectable RS232/422/485 RJ45 interfaces. Field upgradeable accessory to add ports to expandable IOLAN SCG Console Servers.	IOLAN G16 RS- Multi Card	04033820
	Cable Accessories Please click here to see what adapter	s you may need	
	3 meter RJ45 to RJ45 CAT5 Rolled (crossover) cable #1100370-10 for use with IOLAN C models	3m Cbl-Rolled	04005130
	DBA0010C - RJ-45F to DB-25F crossover (DTE) adapter #1100270-10 for IOLAN. View Pinout	DBA0010C	04007010

Accessory Image	Description	Model Number	Accessory Number
	DBA0011C - RJ-45F to DB-25M crossover (DTE) adapter #1100280-10 for IOLAN. View Pinout	DBA0011C	04007020
	DBA0013C - RJ-45F to DB-25M straight-thru (DCE) adapter #1100290-10 for modems on IOLAN. View Pinout	DBA0013C	04007030
	DBA0020C - RJ-45F to DB-9F crossover (DTE) adapter #1100300-10 for Perle serial console ports with Sun/Cisco pinout. View Pinout	DBA0020C	04007040
	DBA0021C - RJ-45F to DB-9M crossover (DTE) adapter #1100310-10 for IOLAN. View Pinout	DBA0021C	04007050
	DBA0023C - RJ-45F to DB-9M straight-thru (DCE) adapter #1100350-11 for modems on IOLAN with Sun/Cisco pinout. View Pinout	DBA0023C	04007210
	IOLAN SCG/SCR RJ45F to DB9M adapter with DCD. View Pinout	DBA0040 Adapter	04007220
	IOLAN SCG/SCR RJ45F to DB25M adapter with DCD. View Pinout	DBA0041 Adapter	04007230

Accessory Image	Description	Model Number	Accessory Number
	DBA0010C 8pck - 8 pack of # 04007010 RJ45F to DB-25F (DTE) crossover adapter for IOLAN. View Pinout	DBA0010C 8pck	04031300
	DBA0011C 8pck - 8 pack of #04007020 RJ45F to DB25M (DTE) crossover adapter for IOLAN. View Pinout	DBA0011C 8pck	04031310
	DBA0020C 8pck - 8 pack of #04007040 RJ45F to DB9F (DTE) crossover adapter for IOLAN. View Pinout	DBA0020C 8pck	04031320
	DBA0021C 8pck - 8 pack of #04007050 RJ45F to DB9M (DTE) crossover adapter for IOLAN. View Pinout	DBA0021C 8pck	04031330
	DBA0013C 8pck - 8 pack of #04007030 RJ45F to DB25M Straight-thru adapter for modems on IOLAN. View Pinout	DBA0013C 8pck	04031340
	DBA0040 8pck - 8 pack of #04007220 IOLAN SCG/SCR RJ45F to DB9M adapter with DCD. View Pinout	DBA0040 Adapter 8 Pck	04031360
	DBA0041 8pck - 8 pack of #04007230 IOLAN SCG/SCR RJ45F to DB25M adapter with DCD. View Pinout	DBA0041 Adapter 8 Pck	04031390

Accessory Image	Description	Model Number	Accessory Number
Maintenance agreements - Console Server / Device Server / Terminal Server Please click here to check for maintenance availability in your region			
	16-18 Port Terminal/Device/Console Servers - Express Replacement	NSS-16 PortZPRESSREP	SERNSS16
	16-18 Port Terminal/Device/Console Servers - Express Replacement French	NSS-16 PortZPRESSREPF	SERNSS16F
	32-34 Port Terminal/Device/Console Servers - Express Replacement	NSS-32 portEXPRESSREP	SERNSS32
	32-34 Port Terminal/Device/Console Servers - Express Replacement French	NSS-32 PortXPRESSREPF	SERNSS32F
	48-50 Port Terminal/Device/Console Servers - Express Replacement	NSS-48 portXPRESSREP	SERNSS48
	48-50 Port Terminal/Device/Console Servers - Express Replacement French	NSS-48 PortXPRESSREPF	SERNSS48F

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