

IOLAN SCR Secure OOBM Console Servers

The Ultimate Network Resilience Solution



- Intelligent Out-of-Band IT Infrastructure Management with optionally integrated Cellular
- Maintain control over your network with a separate, secure management plane built to operate independently from the network to ensure out-of-band access even during network outages.
- Integrate with **PerleVIEW Central Management Platform** for advanced single pane of glass management, automating routine tasks and providing detailed reporting.
- Designed to support the latest technologies and standards, ensuring long-term reliability.
- Advanced routing engine with **AAA security** and **encryption tools** that meet all data center compliance policies

Perle IOLAN SCR Secure Console Servers are engineered to provide unparalleled network resilience and secure remote access to your critical infrastructure. This ultimate solution for advanced out-of-band management will keep your network infrastructure secure, reliable, and automated. Whether managing data centers, branch offices, remote sites, or high-density locations, an IOLAN SCR provides unparalleled control and monitoring capabilities to ensure your network remains operational, even during outages.

Console Management Ports

Every IOLAN SCR Console Server has integrated serial RS232 RJ45 and USB host ports. To get the ultimate solution for connectivity and redundancy, choose the IOLAN SCR256, which also includes Ethernet console management ports.



IOLAN SCR256 Console Server:

24 x Ethernet, 24 x RS232, 8 x USB



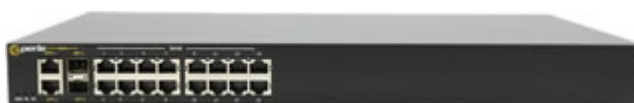
IOLAN SCR258 Console Server:

48 x RS232, 8 x USB



IOLAN SCR242 Console Server:

32 x RS232, 8 x USB

**IOLAN SCR226 Console Server:**

16 x RS232, 8 x USB

A Complete Top-of-Rack Management Solution

An **IOLAN SCR Console Server** at every IT location, used in combination with **PerleVIEW** deployed in the cloud or on premise, provides secure remote device access and management through a single application. This powerful monitoring and management tool offers a robust suite of intuitive automation tools that empower administrators to seamlessly scale deployments, edit configurations, update firmware, monitor system health, schedule tasks, and automate routine actions – all from the comfort of your preferred location and device. **Perle Network Assist** is also an excellent option for busy IT managers who want a free Windows-based desktop application to efficiently configure, monitor, and manage Perle hardware solutions.

Optional Global Cellular Integration

Models with integrated Cellular protect your data center and branch office out-of-band management infrastructure against wired LAN failure. It can also transmit serial data or establish a direct serial-to-serial peer connection over cellular networks. This is ideal when devices are located where hardwired Ethernet connections are not available but cellular networks, with their affordable data packages, are accessible.

Built-in Perle-ARMOR™ security shield

Perle-ARMOR™ is a robust set of standards-based security features integrated into every IOLAN SCR Console Server. Perle is committed to the standards and regulations that industries require for device security, identity, and data privacy.



- **Secure Boot:** By ensuring that the IOLAN SCR boots using only trusted software user can have confidence that malware and rootkits cannot compromise the integrity or security of the device. It provides a robust defense against a variety of threats, supports regulatory compliance, and maintains device integrity.
- **Protect against unauthorized access:** Two-factor authentication (2FA), **IEEE 802.1x**, and support for **AAA protocols like TACACS+, Radius with RADSec, and LDAP** enable integration with enterprise-grade systems.
- **Trusted Platform Module (TPM) 2.0** provides hardware-based encryption, secure key storage, platform integrity, and compliance with security regulations.
- **Secure Internet Transmissions:** The IOLAN SCR ensures the integrity of data flowing across the network by only accepting signed and encrypted files through secured tunnels.
- **Secure Remote Access:** Create a secure tunnel using **OpenVPN** or IPsec to ensure your confidential data is protected and secure

- **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).
- Enable or disable physical ports and specific protocols to limit the attack surface, control the types of traffic that can flow through your network, reduce congestion, and meet regulatory requirements.
- **FIPS 140-2 Software version:** for compliance with US and Canadian Federal Government regulations for protecting sensitive information.

Other Key Features:

- **Zero Touch Provisioning (ZTP):** Simplifies configuration, administration, and deployment, eliminating the need for on-site technical support while saving time and reducing errors.
- **Easy Network Integration:** full IPv4/IPv6 routing capabilities with extensive protocol support, including VRRP, RIP, OSPF, and BGP.
- **Flexible Deployment:** **1U form factor with up to 4 x Uplink ports and dual AC power inputs** ensure uninterrupted operation through redundancy and reliability
- **Automated Network Recovery:** Utilize rules-based automation to detect, analyze, and resolve network issues swiftly and efficiently.
- **TrueSerial® Technology:** Ensures authentic serial connections across Ethernet, maintaining protocol integrity.
- **Cloud Hosting** -- Deploy and manage your network from the cloud

Virtualization & Edge Computing Tools

As infrastructures expand, there is a massive global demand for more processing power at the network edge. This requires advanced equipment with built-in functionality to run distributed tasks without being dependent on a connection to a central host.

IOLAN SCR Console Servers, with **native support for OCI Containers and virtual machines (VMs)**, enable users to optimize edge computing processing capabilities by deploying applications tailored to suit unique or evolving use cases with low latency and real-time responsiveness. One of the main advantages of this solution is the ability to deploy custom third-party applications in a container or a VM that runs tasks and performs intelligent actions closer to the source without obstructing the core functionality of the IOLAN Console Server. Perle's OCI Containers are based on the Docker platform and support public and private container registries such as Docker Hub, Amazon ECR, Opencontainers, GitHub, BuildKit, Podman, and Buildah. The VMs are well suited for complex applications that require a fully dedicated, isolated OS environment to run on the IOLAN to help IT departments optimize their infrastructure and improve operational efficiency.

For **advanced automation**, the IOLAN SCR x86 CPU can easily run your own application, including **Python scripts inside Docker or a VM**, for custom automation of tasks like collecting statistics and reconfiguring devices for more efficient network management.

Lifetime Warranty

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

Hardware Specifications - IOLAN SCR Secure Console Server

Console Management Ports			
IOLAN SCR256: 24 x 10/100/1000 Mbps Ethernet Switch Ports -Connect to Ethernet Console Management ports and IPMI ports			
IOLAN SCR256: 24 x RS232 RJ45	IOLAN SCR226: 16 x RS232 RJ45	IOLAN SCR242: 32 x RS232 RJ45	IOLAN SCR258: 48 x RS232 RJ45
- Note: All serial RS232 RJ45 Console Port software selectable for Cisco-straight or Cisco-rolled pinout			
All Models: 8 x USB Host Ports - Connect to USB console ports. Supports USB flash drives			
Uplink / WAN Ports			
IOLAN SCR256: 2 x SFP ports supporting -1G Fiber SFPs and 10/100/1000 Copper SFPs		IOLAN SCR226, IOLAN SCR242, IOLAN SCR258: 2 x 10/100/1000 Ethernet ports 2 x SFP ports supporting 1/2.5/5/10G Fiber SFPs and 10/100/1000 Copper SFPs	
Power			
Power Input: Dual AC power supplies (with passive cooling – no fans)			
AC Input Voltage Range: 100-240 VAC, 47-63Hz			
Current Consumption (no SFPs): IOLAN SCR256: @ 110VAC: 0.15A @ 240VAC: 0.08A		IOLAN SCR226, IOLAN SCR242, IOLAN SCR258: @ 110VAC: 0.14A @ 240VAC: 0.07A	
Typical Power Consumption: IOLAN SCR256: 17W		IOLAN SCR226, IOLAN SCR242, IOLAN SCR258: 16W	

Heat Output (BTU/HR)

IOLAN SCR256: 63.77

IOLAN SCR226, IOLAN SCR242, IOLAN SCR258:
60.02

Power Cord - optionally included:

- **USA:** IEC320-C13 to NEMA 5-15P (Type B). Use in United States, Canada, Mexico, Japan, and Taiwan.
- **UK:** IEC320-C13 to BS1363 (Type G) - Use in United Kingdom, Ireland, Malaysia, Malta, Singapore, Hong Kong, and Saudi Arabia
- **EU:** IEC320-C13 to CEE 7/7 Schuko (Type E/F) - Use in Europe, South America, and South Korea
- **SA:** IEC320-C13 to BS546 (Type M). Use in South Africa
- **AUS:** IEC320-C13 to AS3112 (Type I). Use in Australia, New Zealand, and China

Environment Specifications

Operating Temperature:

0°C to 50°C (32°F to 131°F)

Storage Temperature:

-40°C to 85°C (-40°F to 185°F)

Operating / Storage Humidity:

5% to 95% non-condensing

Operating Altitude:

Up to 3,048 meters (10,000 ft)

Vibrations:

MIL-STD-810 H, NEBS (Office, Earthquake, Transportation)

MTBF (Hours):

IOLAN SCR256:	IOLAN SCR226:	IOLAN SCR242:	IOLAN SCR258:
134,637	157,990	143,459	130,964
IOLAN SCRC256:	IOLAN SCRC226:	IOLAN SCRC242:	IOLAN SCRC258:
123,885	143,776	131,776	120,573

Calculation model based on MIL-HDBK-217-FN2 @ 25°C/86°F

Ingress Protection Rating:

IP20

Platform
Processor: AMD CPU RYZEN R1305G (x86) Trusted Platform Module 2.0
RAM: 8GB
Storage Space: 256GB
Console Port: 1 x RS232 RJ45 / 1 x USB-C
LEDs: System Ready and Power 1 & 2
Mounting: 1U - 19" rack, front and rear mounting hardware included
Product Dimensions: 440 x 265 x 44 (mm) / 17.32 x 10.43 x 1.73 (in)
Shipping Dimensions: 59 x 36 x 9 (cm), 23.22 x 14.17 x 3.54 (in)
Shipping Weight: 4.75kg / 10.48lb
Certifications
Safety: CAN/CSA-C22.2 No. 62368-1-14

Emissions:

- FCC 47 Part 15 Subpart B Class A
- ICES-003 (Canada)
- EN55011(CISPR11)
- EN55032 (CISPR32)
- EN61000-3-2 Limits for Harmonic Current Emissions
- EN61000-3-3 Limits of Voltage Fluctuations and Flicker

Immunity:

- EN55024
- EN61000-4-2 (ESD)
- EN 61000-4-3 (RS)
- EN 61000-4-4 (EFT)
- EN61000-4-5 (Surge)
- EN 61000-4-6 (CS)
- EN 61000-4-8 (PFMF)
- EN 61000-4-11

Other

Reach, RoHS and WEEE Compliant

TAA and NDAA Compliant

ECCN - 5A992

HTSUS Number: 8517.62.0020

Perle Limited Lifetime Warranty

Cellular Specifications (factory installed option)

2x SIM Cards slots:

Mini-SIM 15 x 25mm (2FF) Dual Push Click

Connectors:

2 x SMA connectors for cellular with diversity

LTE-A PRO CAT12 (worldwide):

600Mbps downlink and 150Mbps uplink speeds

4G/LTE Bands (24):

2100(B1), 1900(B2), 1800(B3), AWS(B4), 850(B5), 2600(B7), 900(B8), 1800(B9), 700(B12), 700(B13), 850(B18), 850(B19), 800(B20), 850(B26), 700(B28), 700(B29), 2300(B30), 1500(B32), TDD B41, TDD B42, TDD B43, TDD B46, CBRS B48, 1700(B66)

3G HSPA/HSPA+ Bands (9):

2100(B1), 1900(B2), 1800(B3), AWS(B4), 850(B5), 800(B6), 900(B8), 1700(B9), 850(B19)

Regulatory Approvals:

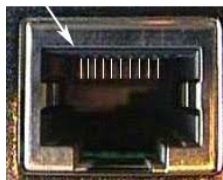
FCC/ICES, PTCRB/CTIA, CE Mark, RED

Carrier Approval:

Verizon, AT&T, T-Mobile

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

Pin 1



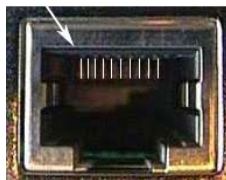
RJ45 Socket

Pinout	Direction	EIA-232
1	in	CTS
2	in	DSR
3	in	RxD
4	N/A	GND
5	N/A	Not Used
6	out	TxD
7	out	DTR
8	out	RTS

Optional Perle adapters for use with straight thru CAT5 cabling

IOLAN RJ45 Serial Connector Pinout - DTE mode (Rolled)

Pin 1



RJ45 Socket

Pinout	Direction	EIA-232
1	out	RTS
2	out	DTR
3	out	TxD
4	N/A	GND
5	in	DCD
6	in	RxD
7	in	DSR
8	in	CTS

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

Product List



IOLAN SCR226 Console Server: 24 x Console Management Ports (16 x RS232 RJ45, 8 x USB), 4 x Uplink Ports (2 x Ethernet, 2 x 10G SFP), Dual AC Power

Power Cord & Part Number(s)

USA	UK	EU	SA	AUS	None
04035724	04035721	04035722	04035725	04035726	04035728



IOLAN SCR242 Console Server: 40 x Console Management Ports (32 x RS232 RJ45, 8 x USB), 4 x Uplink Ports (2 x Ethernet, 2 x 10G SFP), Dual AC Power

Power Cord & Part Number(s)

USA	UK	EU	SA	AUS	None
04035734	04035731	04035732	04035735	04035736	04035738



IOLAN SCR258 Console Server: 56 x Console Management Ports (48 x RS232 RJ45, 8 x USB), 4 x Uplink Ports (2 x Ethernet, 2 x 10G SFP), Dual AC Power

Power Cord & Part Number(s)

USA	UK	EU	SA	AUS	None
04035744	04035741	04035742	04035745	04035746	04035748



IOLAN SCRC226 Console Server: 24 x Console Management Ports (16 x RS232 RJ45, 8 x USB), 4 x Uplink Ports (2 x Ethernet, 2 x 10G SFP), Cellular 4G/LTE-A PRO, Dual AC Power

Power Cord & Part Number(s)

USA	UK	EU	SA	AUS	None
04035754	04035751	04035752	04035755	04035756	04035758



IOLAN SCRC242 Console Server: 40 x Console Management Ports (32 x RS232 RJ45, 8 x USB), 4 x Uplink Ports (2 x Ethernet, 2 x 10G SFP), Cellular 4G/LTE-A PRO, Dual AC Power

Power Cord & Part Number(s)

USA	UK	EU	SA	AUS	None
04035764	04035761	04035762	04035765	04035766	04035768



IOLAN SCRC258 Console Server: 56 x Console Management Ports (48 x RS232 RJ45, 8 x USB), 4 x Uplink Ports (2 x Ethernet, 2 x 10G SFP), Cellular 4G/LTE-A PRO, Dual AC Power

Power Cord & Part Number(s)

USA	UK	EU	SA	AUS	None
04035774	04035771	04035772	04035775	04035776	04035778



IOLAN SCR256 Console Server: 56 x Console Management Ports (24 x Ethernet, 24 x RS232 RJ45, 8 x USB), 2 x SFP Uplink Ports, Dual AC Power

Power Cord & Part Number(s)

USA	UK	EU	SA	AUS	None
04035844	04035841	04035842	04035845	04035846	04035848



IOLAN SCRC256 Console Server: 56 x Console Management Ports (24 x Ethernet, 24 x RS232 RJ45, 8 x USB), 2 x SFP Uplink Ports, Cellular 4G/LTE-A PRO, Dual AC Power

Power Cord & Part Number(s)

USA	UK	EU	SA	AUS	None
04035864	04035861	04035862	04035865	04035866	04035868

Related Accessories



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

Model

3m Cbl-Straighthru

Part Number

04005120



3 meter RJ45 to RJ45 CAT5 Rolled (crossover) cable #1100370-10 for use with IOLAN C models

Model

3m Cbl-Rolled

Part Number

04005130



DBA0010C - RJ-45F to DB-25F crossover (DTE) adapter #1100270-10 for IOLAN. **View Pinout**

Model

DBA0010C

Part Number

04007010



DBA0011C - RJ-45F to DB-25M crossover (DTE) adapter #1100280-10 for IOLAN. **View Pinout**

Model

DBA0011C

Part Number

04007020



DBA0013C - RJ-45F to DB-25M straight-thru (DCE) adapter #1100290-10 for modems on IOLAN. **View Pinout**

Model

DBA0013C

Part Number

04007030



DBA0020C - RJ-45F to DB-9F crossover (DTE) adapter #1100300-10 for Perle serial console ports with Sun/Cisco pinout. **View Pinout**

Model

DBA0020C

Part Number

04007040



DBA0021C - RJ-45F to DB-9M crossover (DTE) adapter #1100310-10 for IOLAN. **View Pinout**

Model

DBA0021C

Part Number

04007050



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.

Model

IOLAN C Model Wiring Starter Kit

Part Number

04007070



DBA0023C - RJ-45F to DB-9M straight-thru (DCE) adapter #1100350-11 for modems on IOLAN with Sun/Cisco pinout. **View Pinout**

Model

DBA0023C

Part Number
04007210


IOLAN SCG/SCR RJ45F to DB9M adapter with DCD. **View Pinout**

Model

DBA0040 Adapter

Part Number
04007220


IOLAN SCG/SCR RJ45F to DB25M adapter with DCD. **View Pinout**

Model

DBA0041 Adapter

Part Number
04007230


DBA0010C 8pck - 8 pack of # 04007010 RJ45F to DB-25F (DTE) crossover adapter for IOLAN. **View Pinout**

Model

DBA0010C 8pck

Part Number
04031300



DBA0011C 8pck - 8 pack of #04007020 RJ45F to DB25M (DTE) crossover adapter for IOLAN.
View Pinout

Model

DBA0011C 8pck

Part Number

04031310



DBA0020C 8pck - 8 pack of #04007040 RJ45F to DB9F (DTE) crossover adapter for IOLAN.
View Pinout

Model

DBA0020C 8pck

Part Number

04031320



DBA0021C 8pck - 8 pack of #04007050 RJ45F to DB9M (DTE) crossover adapter for IOLAN.
View Pinout

Model

DBA0021C 8pck

Part Number

04031330



DBA0013C 8pck - 8 pack of #04007030 RJ45F to DB25M Straight-thru adapter for modems on IOLAN. **View Pinout**

Model

DBA0013C 8pck

Part Number

04031340



DBA0040 8pck - 8 pack of #04007220 IOLAN SCG/SCR RJ45F to DB9M adapter with DCD.
View Pinout

Model

DBA0040 Adapter 8 Pck

Part Number

04031360



DBA0041 8pck - 8 pack of #04007230 IOLAN SCG/SCR RJ45F to DB25M adapter with DCD.
View Pinout

Model

DBA0041 Adapter 8 Pck

Part Number

04031390



PSFP-1110-RJ45: 10/100/1000 Ethernet copper SFP

Model

SFP PSFP-1110-RJ45

Part Number

05071380



Antenna Base: SMA antenna magnetic base with 3m/10ft cable

Model

Antenna Base

Part Number

08000560



5G/4G Antenna SMA: 5G/4G 3dbi antenna with swivel SMA male

Model

5G/4G ANT SMA

Part Number

08000570



NO IMAGE
AVAILABLE

16-18 Port Terminal/Device/Console Servers - Express Replacement

Model

NSS-16 PortZPRESSREP

Part Number

SERNSS16



NO IMAGE
AVAILABLE

16-18 Port Terminal/Device/Console Servers - Express Replacement French

Model

NSS-16 PortZPRESSREPF

Part Number

SERNSS16F



NO IMAGE
AVAILABLE

32-34 Port Terminal/Device/Console Servers - Express Replacement

Model

NSS-32 portEXPRESSREP

Part Number

SERNSS32



NO IMAGE
AVAILABLE

32-34 Port Terminal/Device/Console Servers - Express Replacement French

Model

NSS-32 PortXPRESSREPF

Part Number

SERNSS32F



NO IMAGE
AVAILABLE

48-50 Port Terminal/Device/Console Servers - Express Replacement

Model

NSS-48 portXPRESSREP

Part Number

SERNSS48



NO IMAGE
AVAILABLE

48-50 Port Terminal/Device/Console Servers - Express Replacement French

Model

NSS-48 PortXPRESSREPF

Part Number

SERNSS48F