

# IOLAN SCG W Secure Console Server

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 [perle.com/products/iolan-scgw-console-server.shtml](http://perle.com/products/iolan-scgw-console-server.shtml)

## Out-of-Band IT Infrastructure Management with integrated WiFi

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- 18, 34 or 50 Console Management Ports
- Modular design supports RS232/RS422/RS485 RJ45 and USB 3.0 Interfaces
- Integrated Wi-Fi® for out of band access
- Dual 10/100/1000 Network Connection with RJ45 Copper and SFP Fiber Ports
- 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 W 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 WiFi provides multiple alternate access methods to manage, maintain, and troubleshoot critical network devices, as well as **transmit data from mission-critical equipment over wireless LAN networks**. With an expandable modular hardware platform, **integrated firewall, two-factor 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

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The **modular IOLAN SCG W 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 means the Perle IOLAN SCG supports more serial devices than any other Console Server on the market.

## Advanced Network Security, Authentication, and Data Encryption

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**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 interoperability within a network, providing flexibility and the ability to match the right solution for a particular application.

## Multiple Out-of-Band (OOB) access methods

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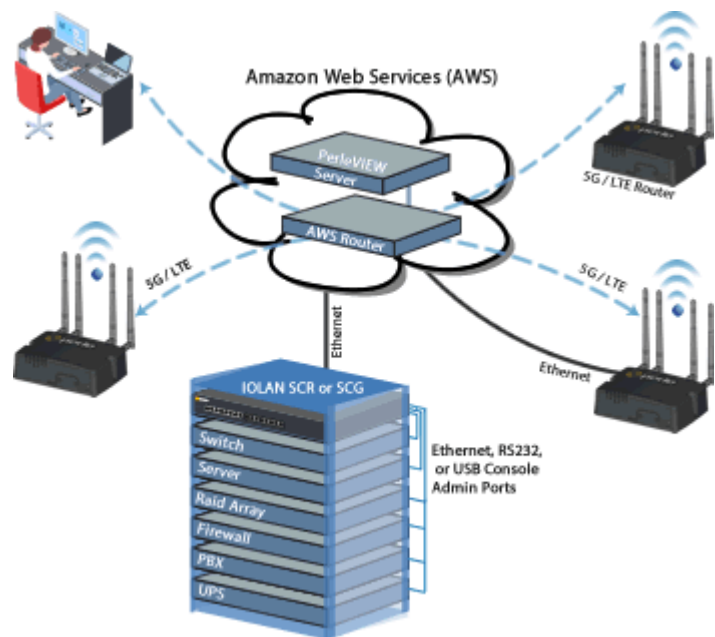
Every IOLAN SCG W Console Server comes with two secure remote access methods to critical network devices.

1. **Built-in WiFi network access over dual-band radio antennas** provides optimal wireless performance, signal reliability, and range. With broad range support of Wireless LAN Technology (IEEE 802.11 a,b,g,n @ 2.4Ghz/5Ghz) and fast wireless speeds up to 150Mbps, the IOLAN SCG W is ideal to ensure you always have access to 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 W 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 W 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**

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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**

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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:**

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- As a wireless client proxy, provides wireless connectivity to central access points for serial and Ethernet devices
- Can provide a direct serial to serial peer connection over wireless
- Software Access Point (SoftAP) for up to 6 wireless clients.
- Fast Wireless Roaming capability is ideal for mobile applications where the IOLAN can transparently roam between APs (Access Points) that share the same ESS (Extended Service Set)
- 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**

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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 W Secure Console Server

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### Management & Configuration

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

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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.

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

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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.

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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.

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

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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).

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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 can be controlled externally from a server.

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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.

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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

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Dynamic DNS with DYNDNS.org

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Installation Wizard

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## **Remote Access**

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Dial, direct serial: PPP, PAP/CHAP, SLIP

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HTTP tunneling enables firewall-safe access to remote serial devices across the internet

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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.

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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

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OpenVPN: Clients & Servers

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## **Logging, Reporting & Alerts**

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Email alert notification

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

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## **Accessing Console Management Ports (Serial & Ethernet)**

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Serial Protocols: PPP, PAP/CHAP, SLIP

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Connect directly using Telnet / SSH by port and IP address

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Use an internet browser to access with HTTP or secure HTTPS

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

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Ports can be assigned a specific IP address

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Multisession capability enables multiple users to access ports simultaneously

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Multihost access enables multiple hosts/servers to share serial ports

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## **Console Management Functions**

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Sun / Oracle Solaris Break Safe

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Local port buffer viewing - 256K bytes per port

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External port buffering via NFS, encrypted NFS and Syslog

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Event notification

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

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### **Terminal Server Functions**

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Telnet

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SSH v1 and v2

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Auto session login

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LPD, RCP printer

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MOTD - Message of the day

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### **Serial to Ethernet functions**

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Tunnel raw serial data across Ethernet - clear or encrypted

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Raw serial data over TCP/IP

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Raw serial data over UDP

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Serial data control of packetized data

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Share serial ports with multiple hosts/servers

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Virtual modem simulates a modem connection - assign IP address by AT phone number

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Virtual modem data can be sent over the Ethernet link with or without SSL encryption

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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.

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TrueSerial packet technology provides the most authentic serial connections across Ethernet ensuring serial protocol integrity

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RFC 2217 standard for transport of serial data and RS232 control signals

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Customizable or fixed serial baud rates

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Serial encapsulation of industrial protocols such as ModBus, DNP3 and IEC-870-5-101

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ModBus TCP gateway enables serial Modbus ASCII/RTU device connection to ModBus TCP

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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

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## **Redundancy**

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Load Balancing

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VPN Failover

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

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Primary/Backup host functionality enables automatic connections to alternate hosts

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## **Routing / Switching Protocols**

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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

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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

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

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## **IP Applications**

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

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

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DHCP / DHCPv6 server / DHCP Snooping & BOOTP

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## **VLAN & VPN**

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

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IPSec VPN: NAT Traversal, ESP authentication protocol

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## **Firewall Features**

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Ability to set up firewalls to restrict incoming and outgoing packets

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

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Access Control Lists (list & ranges & time)

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

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

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Layer 2 MAC address filtering

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Port Forwarding

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BGP Communities

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## **Security Features**

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

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

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

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Ability to disable Ping responses

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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.

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

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SSL Peer authentication

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SSL encryption: AES-GCM, key exchange ECDH-ECDSA, HMAC SHA256, SHA384

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Encryption: AES (256/192/128), 3DES, DES, Blowfish, CAST128, ARCFOUR(RC4), ARCTWO(RC2)

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Hashing Algorithms: MD5, SHA-1, RIPEMD160, SHA1-96, and MD5-96

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Key exchange: RSA, EDH-RSA, EDH-DSS, ADH

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

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Certificate Support (X.509)

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Certificate authority (CA) list

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Local database

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RIP authentication (via password or MD5)

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

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Management Access Control

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Demilitarized Zone (DMZ)

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Secure HTTP/HTTPS/FTP/Telnet Authentication Proxy

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SNMP v3 Authentication and Encryption support

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IP Address filtering

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Disable unused daemons

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Active Directory via LDAP

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### Protocols

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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 W Secure Console Server

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| <b>Processor</b> | 1750 MIPS, 500 MHz core 32 bit ARM processor, with integrated hardware encryption processor |
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### Memory

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|---------------|------|
| <b>RAM MB</b> | 1000 |
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|                 |      |
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| <b>Flash MB</b> | 4000 |
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### Interface Ports

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|---|-------------|
| <b>Integrated Device Management Ports</b> | 2 x USB 3.0 |
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| <b>Modular Device Management Ports</b> | <p>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:</p> <ul style="list-style-type: none"> <li>• IOLAN G16 RS232 Card: Interface Module with 16 x RS232 RJ45 interfaces with software configurable Cisco pinouts</li> <li>• IOLAN G16 USB Card: Interface Module with 16 x USB 3.0 (Type-A) Console Management Ports.</li> <li>• IOLAN G16 RS-Multi Card: Interface Module with 16 x software selectable RS232/422/485 RJ45 interfaces. RS485 Full and Half duplex</li> </ul> |
| <b>Sun / Solaris</b>                   | Sun / Oracle 'Solaris' Safe - no "break signal" sent during power cycle causing costly server re-boots or downtime   |
| <b>Serial Port Speeds</b>              | 50bps to 230Kbps with customizable baud rate support   |
| <b>Data Bits</b>                       | Configurable for 5,6,7 or 8-bit protocol support<br>Use TruePort to transparently pass 9-bit serial data   |
| <b>Parity</b>                          | Odd, Even, Mark, Space, None   |
| <b>Flow Control</b>                    | Hardware, Software, Both, None   |
| <b>Serial Port Protection</b>          | 15Kv Electrostatic Discharge Protection (ESD)  |
| <b>Local Console Ports</b>             | 1 x RS232 RJ45<br>1 x Micro USB with DB9 adapter   |
| <b>Network</b>                         | <p>2 x 10/100/1000Base-T RJ45 Copper<br/>2 x 100/1000Base-X Fiber SFP Ports<br/>Note: Any combination of two network ports can be used.<br/>Software selectable Ethernet speed 10/100/1000, Auto<br/>Software selectable Half/Full/Auto duplex</p>   |
| <b>Micro SD Card slot</b>              | Yes  |
| <b>Ethernet Isolation</b>              | 1.5Kv Magnetic Isolation   |
| <b>Integrated Wireless Access</b>      |  |
| <b>WLAN (Wi-Fi ®)</b>                  | IEEE 802.11 a,b,g,n,i  |

|   |   |
|---|---|
| <b>Wireless Topology</b>                                  | Infrastructure (AP) and Peer to Peer- (SoftAP) modes  |
| <b>Wireless Radio</b>                                     | Dual-Band Radio ; 2.4GHz and 5GHz 20, 40Mhz SISO 2.4-GHz  |
| <b>Wireless Data Rates</b>                                | 802.11n: 15, 30, 45, 60, 90, 120, 135, 150 Mbps (40Mhz channel @ 400ns Short GI)<br>802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11b: 1, 2, 5.5, 11 Mbps  |
| <b>Operational Frequency Range (MHz)</b>                  | 2412 to 2484 MHz<br>4910 to 5825 MHz  |
| <b>Modulation</b>   | DSSS, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM   |
| <b>Wireless Receiver Sensitivity in dBm (2.4Ghz SISO)</b> | 802.11b/g (20 MHz channel)<br>1 Mbps: -95.0<br>2 Mbps: -92.0<br>5.5 Mbps: -89.2<br>6 Mbps: -91.0<br>9 Mbps: -89.0<br>11 Mbps: -86.3<br>12 Mbps: -88.0<br>18 Mbps: -85.5<br>24 Mbps: -82.5<br>36 Mbps: -79.0<br>48 Mbps: -74.0<br>54 Mbps: -72.7<br>802.11n (20 MHz channel) @ 400ns GI<br>7.2 Mbps (MCS0): -89.3<br>14.4 Mbps (MCS1): -86.5<br>21.7 Mbps (MCS2): -84.5<br>28.9 Mbps (MCS3): -81.5<br>43.3 Mbps (MCS4): -78.0<br>57.8 Mbps (MCS5): -73.5<br>65.0 Mbps (MCS6): - 71.5<br>72.2 Mbps (MCS7): -70.0<br>802.11n (40 MHz channel) @ 400ns GI<br>15.0 Mbps (MCS0): -89.3<br>30.0 Mbps (MCS1): -86.5<br>45.0 Mbps (MCS2): -84.5<br>60.0 Mbps (MCS3): -81.5<br>90.0 Mbps (MCS4): -78.0<br>120.0 Mbps (MCS5): -73.5<br>135.0 Mbps (MCS6): - 71.5<br>150.0 Mbps (MCS7): -70.0 |

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|----------------------|------------------|
| <b>Wireless</b>      | (20 MHz channel) |
| <b>Transmit</b>      | 1 Mbps: 16.0     |
| <b>Power in dBm</b>  | 2 Mbps: 16.0     |
| <b>(2.4Ghz SISO)</b> | 5.5 Mbps: 16.0   |
|                      | 6 Mbps: 16.5     |
|                      | 9 Mbps: 16.5     |
|                      | 11 Mbps: 16.0    |
|                      | 12 Mbps: 16.5    |
|                      | 18 Mbps: 16.5    |
|                      | 24 Mbps: 16.5    |
|                      | 36 Mbps: 15.2    |
|                      | 48 Mbps: 14.3    |
|                      | 54 Mbps: 13.5    |
|                      | MCS0: 16.0       |
|                      | MCS1: 16.0       |
|                      | MCS2: 16.0       |
|                      | MCS3: 16.0       |
|                      | MCS4: 15.2       |
|                      | MCS5: 14.3       |
|                      | MCS6: 13.5       |
|                      | MCS7: 12.6       |
|                      | (40 MHz channel) |
|                      | MCS0: 14.0       |
|                      | MCS7: 11.8       |

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|                       |                                    |
|-----------------------|------------------------------------|
| <b>Wireless</b>       | 802.11a                            |
| <b>Receiver</b>       | 6 Mbps: -92.5                      |
| <b>Sensitivity in</b> | 9 Mbps: -90.5                      |
| <b>dBm (5Ghz</b>      | 12 Mbps: -90.0                     |
| <b>SISO)</b>          | 18 Mbps: -87.5                     |
|                       | 24 Mbps: -84.5                     |
|                       | 36 Mbps: -81.0                     |
|                       | 48 Mbps: -76.5                     |
|                       | 54 Mbps: -74.6                     |
|                       | 802.11n (20MHz channel) @ 400ns GI |
|                       | 7.2 Mbps (MCS0 ): -91.4            |
|                       | 14.4 Mbps (MCS1): -88.0            |
|                       | 21.7 Mbps (MCS2): -86.0            |
|                       | 28.9 Mbps (MCS3): -83.0            |
|                       | 43.3 Mbps (MCS4): -79.8            |
|                       | 57.8 Mbps (MCS5): -75.5            |
|                       | 65.0 Mbps (MCS6): - 74.0           |
|                       | 72.2 Mbps (MCS7): -72.4            |
|                       | 802.11n (40MHz channel) @ 400ns GI |
|                       | 15.0 Mbps (MCS0): -88.5            |
|                       | 150.0 Mbps (MCS7): -69.3           |

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|--|---|
| <b>Wireless Transmit Power in dBm (5Ghz SISO)</b>      | 802.11a<br>6 Mbps: 18.0<br>9 Mbps: 18.0<br>12 Mbps: 18.0<br>18 Mbps: 18.0<br>24 Mbps: 17.4<br>36 Mbps: 16.5<br>48 Mbps: 15.8<br>54 Mbps: 14.5<br>802.11n (HT20) @ 400ns GI<br>7.2 Mbps (MCS0): 18.0<br>14.4 Mbps (MCS1): 18.0<br>21.7 Mbps (MCS2): 18.0<br>28.9 Mbps (MCS3): 18.0<br>43.3 Mbps (MCS4): 16.5<br>57.8 Mbps (MCS5): 15.8<br>65.0 Mbps (MCS6): 14.5<br>72.2 Mbps (MCS7): 12.0<br>802.11n (HT40) @ 400ns GI<br>15.0 Mbps (MCS0): 16.5<br>150.0 Mbps (MCS7): 12.0 |
| <b>Short Guard Interval (SGI)</b>                      | 800ns and 400ns (Short Guard Interval)  |
| <b>Wireless Antenna</b>                                | Dual-band 2.4/5.0 GHz, Omni-directional, Dipole antenna, 50 Ohm, 2 dBi, black with RP-SMA / RSMA finger tighten connector. Same antenna can be used as Main and/or Diversity for increased wireless performance, signal reliability, and extended range.  |
| <b>Maximal Ratio Combining (MRC), Rx Diversity</b>     | 2.4 GHz MRC support for up to 1.4 Extended Range and 5 GHz Diversity Capable  |
| <b>Wireless Security</b>                               | WEP, WPA-PSK, WPA2-PSK & Enterprise (EAP, PEAP, LEAP), 802.11i (includes hardware-accelerated Advanced Encryption Standard [AES]), 802.1x supplicant  |
| <b>Fast Wireless Roaming</b>                           | Ideal for mobile applications, the IOLAN can transparently roam between APs (Access Points) that share the same ESS (Extended Service Set)  |
| <b>WiFi Protected Setup (WPS V2)</b>                   | A plug and play set up feature where the IOLAN can easily connect to a WPS capable central access point or SoftAP compliant device supporting WPS   |
| <b>Front Panel LCD Display and Keyboard Indicators</b> |   |

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Network Link Activity  
Serial Tx/Rx data per port

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### LED Indicators

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System Ready  
Network Link Activity

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### Environmental Specifications

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**Heat Output (BTU/HR)** IOLAN SCG18: 59.71  
IOLAN SCG34: 81.89  
IOLAN SCG50: 104.07

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**MTBF (Hours)** 81,706  
Calculation model based on MIL-HDBK-217-FN2 @ 30 °C

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**Operating Temperature** 0C to 55C, 32F to 131F

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**Storage Temperature** -40C to 85C, -40F to 185F

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**Humidity** 5 to 95% (non condensing) for both storage and operation.

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**Case** SECC Zinc plated sheet metal (1 mm)

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**Ingress Protection Rating** IP30

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**Mounting** 1U - 19" rack, front and rear mounting hardware included

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### Regulatory Approvals

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**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

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|                                   |   |
|-----------------------------------|---|
| <b>Immunity</b>                   | <p>EN55024</p> <p>EN 61000-4-2 (ESD): Contact:</p> <p>EN 61000-4-3 (RS):</p> <p>EN 61000-4-4 (EFT):</p> <p>EN 61000-4-5 (Surge):</p> <p>EN 61000-4-6 (CS):</p> <p>EN 61000-4-8 (PFMF)</p> <p>EN 61000-4-11</p>  |
| <b>Safety</b>                     | <p>UL/EN/IEC 62368-1 (previously 60950-1)</p> <p>CAN/CSA C22.2 No. 62368-1</p>  |
| <b>Wireless Regulatory Domain</b> | <p>FCC/ICES</p> <p>ETSI</p> <p>TELEC</p> <p>Users are responsible for verifying approval for use in their individual countries.</p>   |
| <b>Radio Approvals</b>            | <p>FCC Part 15.247 Subpart C (2.4 Ghz)</p> <p>FCC Part 15.407 Subpart E (5 Ghz)</p> <p>RSS-210 (Canada), RSS-Gen Issue 2 (Canada), ICES-003 Issue 4</p> <p>ETSI EN 301 489-1 (V1.9.2)</p> <p>ETSI EN 301 489-17 (V2.2.1)</p> <p>ETSI EN 300 328 (V1.8.1)</p> <p>ETSI EN 301 893 (V1.7.1)</p>  |
| <b>Frequency Bands</b>            | <p>FCC / ICES</p> <p>2.412 to 2.462 GHz; 11 channels</p> <p>5.180 to 5.320 GHz; 8 channels</p> <p>5.500 to 5.700 GHz, 8 channels (excluding 5.600 to 5.640 GHz)</p> <p>5.745 to 5.825 GHz; 5 channels</p> <p>ETSI</p> <p>2.412 to 2.472 GHz; 13 channels</p> <p>5.180 to 5.320 GHz; 8 channels</p> <p>5.500 to 5.700 GHz; 8 channels (excluding 5.600 to 5.640 GHz)</p> <p>MIC (formally TELEC)</p> <p>2.412 to 2.472 GHz; 13 channels</p> <p>4.920 to 4.980 GHz; 4 channels</p> <p>5.030 to 5.091 GHz; 3 channels</p> <p>5.180 to 5.240 GHz; 8 channels</p> <p>5.500 to 5.700 GHz; 11 channels</p> |
| <b>Other</b>                      | <p>Reach, RoHS and WEEE Compliant</p> <p>CCATS - G168387</p> <p>ECCN - 5A992</p> <p>HTSUS Number: 8517.62.0020</p> <p>Perle Limited Lifetime warranty</p>   |



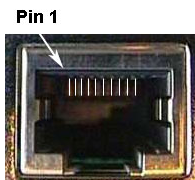
| <b>Power</b>                     | <b>Dual AC Models</b>   | <b>Dual Feed DC Models</b>  |
|----------------------------------|---|---|
| <b>Power Supply</b>              | USA: IEC320-C13 to NEMA 5-15P line cord<br>UK: IEC320-C13 to BS1363 line cord<br>EU: IEC320-C13 to CEE 7/7 Schuko<br>South Africa: IEC320-C13 to BS546 line cord<br>Australia: IEC320-C13 to AS3112 line cord | Terminal Blocks with screw terminals accommodating 28 - 12 AWG wire sizes.            |
| <b>Nominal Input Voltage</b>     | 110/230v AC   | 48v DC  |
| <b>Input Voltage Range</b>       | 100-240v AC   | 24- 60v DC  |
| <b>AC Input Frequency</b>        | 47-63Hz   | -   |
| <b>Current Consumption</b>       | <b>@ 100v (Amps)</b><br>IOLAN SCG18: 0.17<br>IOLAN SCG34: 0.24<br>IOLAN SCG50: 0.31<br><b>@ 240v (Amps)</b><br>IOLAN SCG18: 0.07<br>IOLAN SCG34: 0.10<br>IOLAN SCG50: 0.13                                    | <b>@ 48v DC (Amps)</b><br>IOLAN SCG18: 0.17<br>IOLAN SCG34: 0.24<br>IOLAN SCG50: 0.31 |
|                                  | 17.5 Watts  |   |
| <b>Typical Power Consumption</b> | Note: USB cards can use an additional power of 2.5 Watts per port up to a max of 8 Watts total  |   |
| <b>Power Line Protection</b>     | Fast transients: 1 KV (EN61000-4-4 Criteria B)<br>Surge: 2KV (EN61000-4-5 common mode), 1KV (EN61000-4-5 differential and common modes)   |   |
| <b>Weight and Dimensions</b>     | <b>Dual AC Models</b>   | <b>Dual Feed DC Models</b>  |

|                            |  |   |
|----------------------------|--|---|
| <b>Product Weight</b>      | IOLAN SCG18: 3.28 kg / 7.23 lbs<br>IOLAN SCG34: 3.45 kg / 7.60 lbs<br>IOLAN SCG50: 3.62 kg / 7.98 lbs  | IOLAN SCG18: 3.19 kg / 7.03lbs<br>IOLAN SCG34: 3.36 kg / 7.41 lbs<br>IOLAN SCG50: 3.52 kg / 7.76 lbs  |
| <b>Product Dimensions</b>  | 1U Rack form factor - 26.4 x 43.4 x 4.4 (cm), 10.38 x 17.1 x 1.75 (in)                                 |   |
| <b>Shipping Weight</b>     | IOLAN SCG18: 4.22 kg / 9.30 lbs<br>IOLAN SCG34: 4.39 kg / 9.69 lbs<br>IOLAN SCG50: 4.56 kg / 10.05 lbs | IOLAN SCG18: 4.13 kg / 9.11 lbs<br>IOLAN SCG34: 4.30 kg / 9.48 lbs<br>IOLAN SCG50: 4.46 kg / 9.83 lbs |
| <b>Shipping Dimensions</b> | 59 x 36 x 9 (cm), 23.22 x 14.17 x 3.54 (in)  |   |

**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      |
|  | 5      |           | not used |
|  | 6      | out       | TxD      |
|  | 7      | out       | DTR      |
|  | 8      | out       | RTS      |

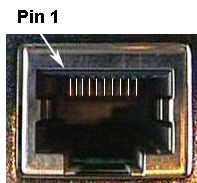
**RJ45 Socket**



Optional Perle adapters for use with straight thru CAT5 cabling

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

RJ45 Socket

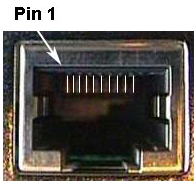


| Pinout | Direction | EIA-232 |
|--------|-----------|---------|
| 1      | out       | RTS     |
| 2      | out       | DTR     |
| 3      | out       | TxD     |
| 4      |           | GND     |
| 5      | in        | DCD     |
| 6      | in        | RxD     |
| 7      | in        | DSR     |
| 8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

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

## IOLAN G16 RS-Multi Card RJ45 Serial Connector Pinout

RJ45 Socket

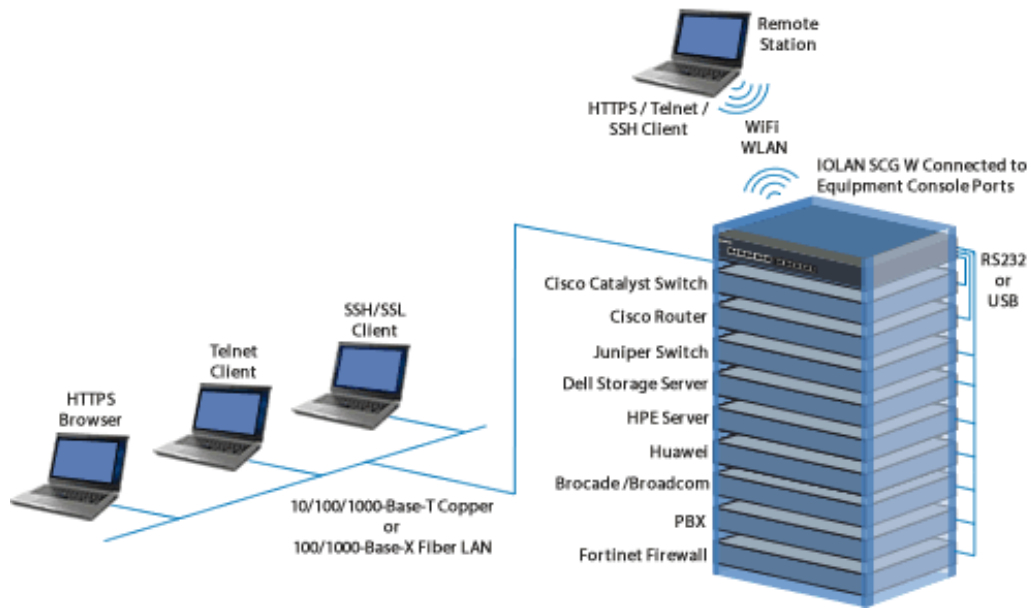


| Pinout | Direction | EIA-232 | EIA-422 | EIA-485 Full Duplex | EIA-485 Half Duplex |
|--------|-----------|---------|---------|---------------------|---------------------|
| 1      | out       | RTS     | TxD+    | TxD+                | DATA+               |
| 2      | out       | DTR     |         |                     |                     |
| 3      | out       | TxD     | TxD-    | TxD-                | DATA-               |
| 4      |           | GND     | GND     | GND                 | GND                 |
| 5      |           | GND     | GND     | GND                 | GND                 |
| 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

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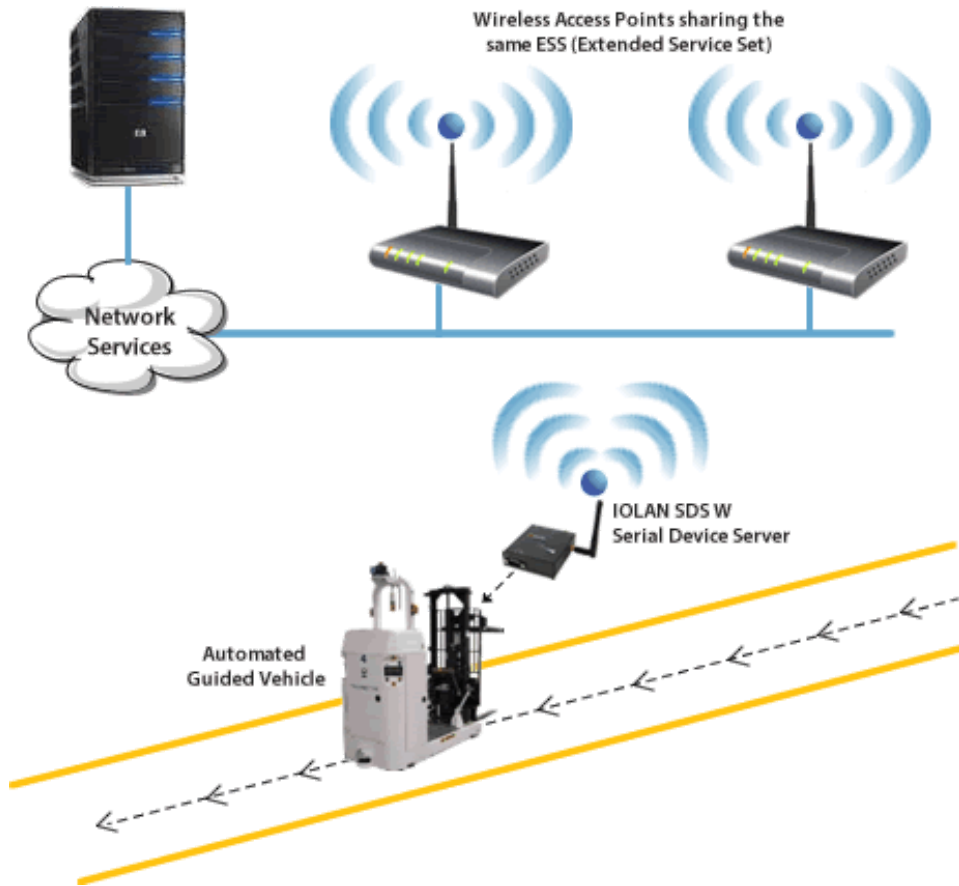


## Seamless Wireless Roaming

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### Serial devices can roam

IOLAN SDS W units installed on mobile devices, such as fork lifts with a serial interface, can maintain a continuous connection to network services that are part of Wireless Access Point infrastructure that shares the same ESS ( Extended Service Set ).



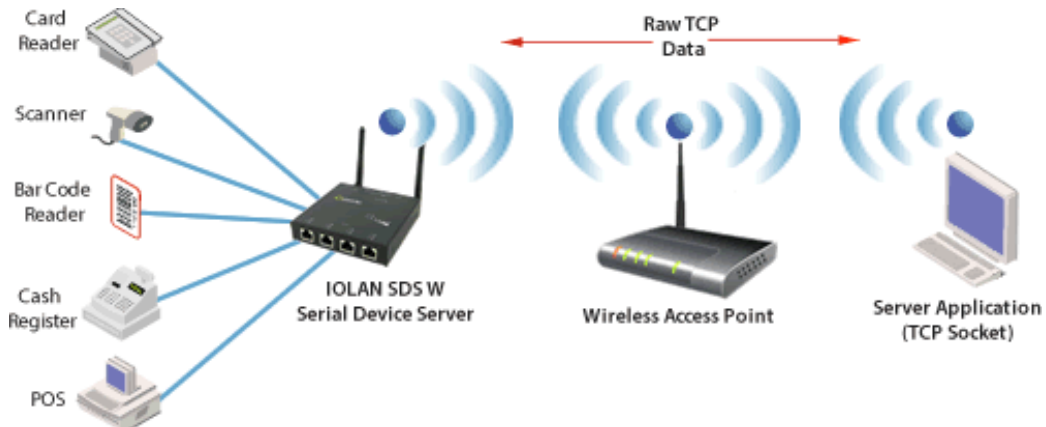

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## TCP

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### Using RAW TCP Sockets over Wireless LAN

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 W **serial-Ethernet** adapter.



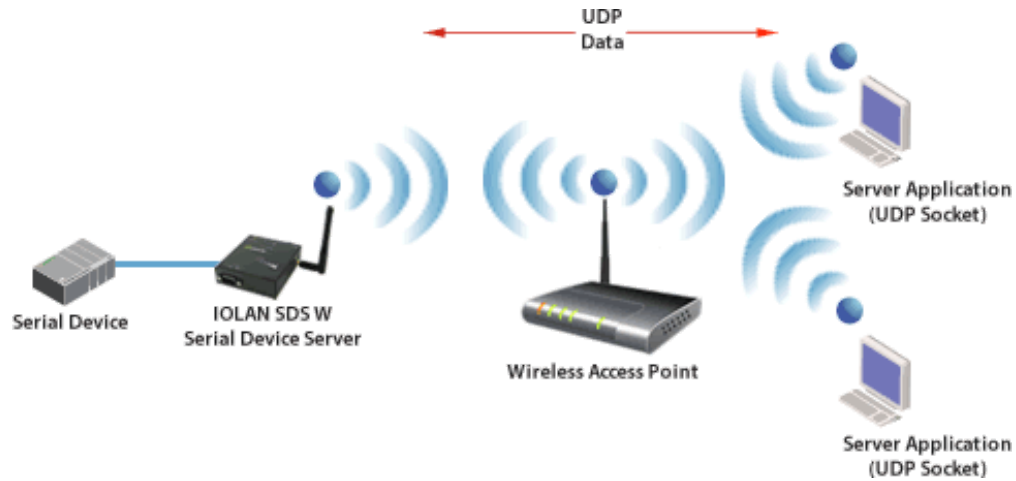
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## UDP

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### Using Raw UDP Sockets over Wireless LAN

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.



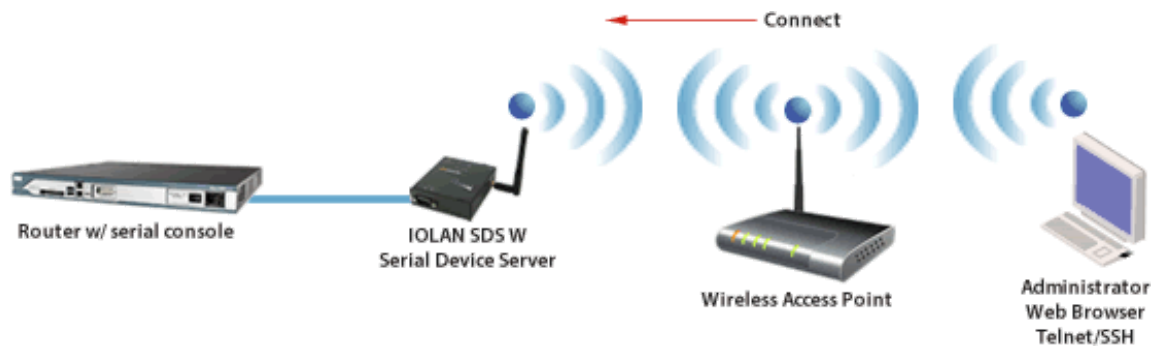
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## Console Server

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### Console Management over Wireless LAN

For access to remote console ports on routers, switches, etc. Perle IOLAN's enable administrators secure access to these RS232 ports via in-band Reverse Telnet / SSH over wireless LANs.



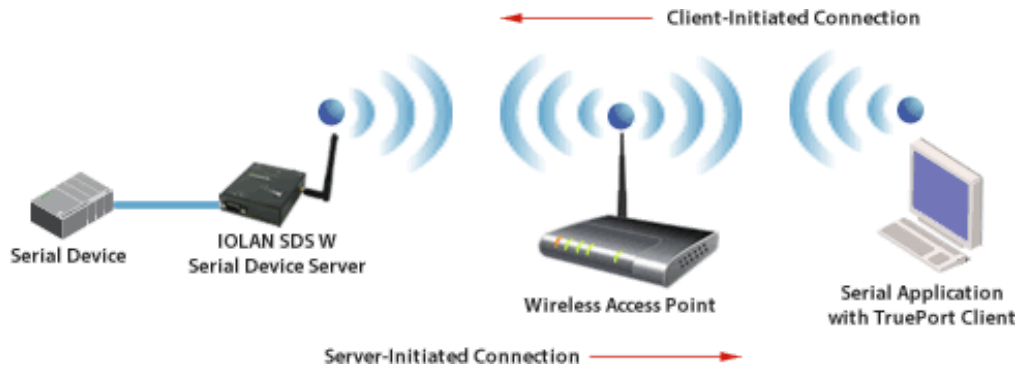
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## COM/TTY

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## Connect Serial-based Applications over Wireless LAN 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 over Wireless

### Serial Tunneling between two Serial Devices over Wireless Peer to Peer




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.









| Product Image | Description | Power Cord | Product Number |
|---------------|-------------|------------|----------------|
|---------------|-------------|------------|----------------|





| Product Image   | Description  | Power Cord                           | Product Number   |
|---|--|--------------------------------------|--|
|    | <p>IOLAN SCG18 R-W 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), Wireless LAN (WiFi) client IEEE 802.11 a, b, g, n @ 2.4Ghz/5Ghz, 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</p>   | USA<br>UK<br>EU<br>SA<br>AUS<br>NONE | 04032814<br>04032811<br>04032812<br>04032815<br>04032816<br>04032818 |
|    | <p>IOLAN SCG18 R-WD 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), Wireless LAN (WiFi) client IEEE 802.11 a, b, g, n @ 2.4Ghz/5Ghz, 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.</p> | None                                 | 04033940   |
|  | <p>IOLAN SCG18 U-W Console Server: 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), Wireless LAN (WiFi) client IEEE 802.11 a, b, g, n @ 2.4Ghz/5Ghz, 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</p>   | USA<br>UK<br>EU<br>SA<br>AUS<br>NONE | 04033174<br>04033171<br>04033172<br>04033175<br>04033176<br>04033178 |





| Product Image   | Description   | Power Cord                           | Product Number   |
|---|---|--------------------------------------|--|
|    | <p>IOLAN SCG18 S-W Console Server: 16 x software selectable RS232/422/485 RJ45 interfaces, 2 x USB Ports, Front Panel Display and Keyboard, 2 x auto-sensing 10/100/1000 Ethernet Combo Ports (RJ45 or SFP), Wireless LAN (WiFi) client IEEE 802.11 a, b, g, n @ 2.4Ghz/5Ghz, 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 AC Power</p>        | USA<br>UK<br>EU<br>SA<br>AUS<br>NONE | 04035024<br>04035021<br>04035022<br>04035025<br>04035026<br>04035028 |
|    | <p>IOLAN SCG18 S-WD Console Server: 16 x software selectable RS232/422/485 RJ45 interfaces, 2 x USB Ports, Front Panel Display and Keyboard, 2 x auto-sensing 10/100/1000 Ethernet Combo Ports (RJ45 or SFP), Wireless LAN (WiFi) client IEEE 802.11 a, b, g, n @ 2.4Ghz/5Ghz, 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.</p> | None                                 | 04035390   |
|  | <p>IOLAN SCG34 R-W 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), Wireless LAN (WiFi) client IEEE 802.11 a, b, g, n @ 2.4Ghz/5Ghz, 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</p>                            | USA<br>UK<br>EU<br>SA<br>AUS<br>NONE | 04032934<br>04032931<br>04032932<br>04032935<br>04032936<br>04032938 |



| Product Image   | Description  | Power Cord                           | Product Number   |
|---|--|--------------------------------------|--|
|    | <p>IOLAN SCG34 R-WD 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), Wireless LAN (WiFi) client IEEE 802.11 a, b, g, n @ 2.4Ghz/5Ghz, 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.</p> | None                                 | 04034060   |
|    | <p>IOLAN SCG34 U-W Console Server: 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), Wireless LAN (WiFi) client IEEE 802.11 a, b, g, n @ 2.4Ghz/5Ghz, 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</p>   | USA<br>UK<br>EU<br>SA<br>AUS<br>NONE | 04033294<br>04033291<br>04033292<br>04033295<br>04033296<br>04033298 |
|  | <p>IOLAN SCG34 RU-W 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), Wireless LAN (WiFi) client IEEE 802.11 a, b, g, n @ 2.4Ghz/5Ghz, 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</p>                                       | USA<br>UK<br>EU<br>SA<br>AUS<br>NONE | 04033534<br>04033531<br>04033532<br>04033535<br>04033536<br>04033538 |




| Product Image   | Description   | Power Cord                           | Product Number   |
|---|---|--------------------------------------|--|
|    | <p>IOLAN SCG34 S-W Console Server: 32 x software selectable RS232/422/485 RJ45 interfaces, 2 x USB Ports, Front Panel Display and Keyboard, 2 x auto-sensing 10/100/1000 Ethernet Combo Ports (RJ45 or SFP), Wireless LAN (WiFi) client IEEE 802.11 a, b, g, n @ 2.4Ghz/5Ghz, 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 AC Power</p>        | USA<br>UK<br>EU<br>SA<br>AUS<br>NONE | 04035144<br>04035141<br>04035142<br>04035145<br>04035146<br>04035148 |
|    | <p>IOLAN SCG34 S-WD Console Server: 32 x software selectable RS232/422/485 RJ45 interfaces, 2 x USB Ports, Front Panel Display and Keyboard, 2 x auto-sensing 10/100/1000 Ethernet Combo Ports (RJ45 or SFP), Wireless LAN (WiFi) client IEEE 802.11 a, b, g, n @ 2.4Ghz/5Ghz, 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.</p> | None                                 | 04035510   |
|  | <p>IOLAN SCG50 R-W 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), Wireless LAN (WiFi) client IEEE 802.11 a, b, g, n @ 2.4Ghz/5Ghz, 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</p>  | USA<br>UK<br>EU<br>SA<br>AUS<br>NONE | 04033054<br>04033051<br>04033052<br>04033055<br>04033056<br>04033058 |

| Product Image   | Description  | Power Cord                           | Product Number   |
|---|--|--------------------------------------|--|
|    | <p>IOLAN SCG50 R-WD 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), Wireless LAN (WiFi) client IEEE 802.11 a, b, g, n @ 2.4Ghz/5Ghz, 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, Dual Feed DC Power.</p> | None                                 | 04034180   |
|    | <p>IOLAN SCG50 U-W Console Server: 50 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), Wireless LAN (WiFi) client IEEE 802.11 a, b, g, n @ 2.4Ghz/5Ghz, 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</p>   | USA<br>UK<br>EU<br>SA<br>AUS<br>NONE | 04033414<br>04033411<br>04033412<br>04033415<br>04033416<br>04033418 |
|  | <p>IOLAN SCG50 RRU-W 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), Wireless LAN (WiFi) client IEEE 802.11 a, b, g, n @ 2.4Ghz/5Ghz, 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</p>                                      | USA<br>UK<br>EU<br>SA<br>AUS<br>NONE | 04033654<br>04033651<br>04033652<br>04033655<br>04033656<br>04033658 |
|  | <p>IOLAN SCG50 RUU-W 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), Wireless LAN (WiFi) client IEEE 802.11 a, b, g, n @ 2.4Ghz/5Ghz, 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</p>                                      | USA<br>UK<br>EU<br>SA<br>AUS<br>NONE | 04033774<br>04033771<br>04033772<br>04033775<br>04033776<br>04033778 |

| Product Image   | Description  | Power Cord                           | Product Number   |
|---|--|--------------------------------------|--|
|  | IOLAN SCG50 S-W Console Server: 48 x software selectable RS232/422/485 RJ45 interfaces, 2 x USB Ports, Front Panel Display and Keyboard, 2 x auto-sensing 10/100/1000 Ethernet Combo Ports (RJ45 or SFP), Wireless LAN (WiFi) client IEEE 802.11 a, b, g, n @ 2.4Ghz/5Ghz, 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, Dual AC Power        | USA<br>UK<br>EU<br>SA<br>AUS<br>NONE | 04035264<br>04035261<br>04035262<br>04035265<br>04035266<br>04035268 |
|  | IOLAN SCG50 S-WD Console Server: 48 x software selectable RS232/422/485 RJ45 interfaces, 2 x USB Ports, Front Panel Display and Keyboard, 2 x auto-sensing 10/100/1000 Ethernet Combo Ports (RJ45 or SFP), Wireless LAN (WiFi) client IEEE 802.11 a, b, g, n @ 2.4Ghz/5Ghz, 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, Dual Feed DC Power. | None                                 | 04035630   |





## Accessories


| Accessory Image   | Description  | Model Number                     | Accessory Number |
|---|--|----------------------------------|------------------|
|  | 3 meter RJ45 to RJ45 CAT5 Straight-thru cable #1100360-10  | 3m Cbl-Straighthru               | 04005120         |
|  | 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-9 Male 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         |






| Accessory Image   | Description  | Model Number            | Accessory Number |
|---|--|-------------------------|------------------|
|  | <p><b>IOLAN G16 RS232 Card:</b> 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.</p> | IOLAN G16 RS232 Card    | 04033800         |
|  | <p><b>IOLAN G16 USB Card:</b> 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.</p>                        | IOLAN G16 USB Card      | 04033810         |
|  | <p><b>IOLAN G16 RS-Multi Card:</b> Interface Module with 16 x software selectable RS232/422/485 RJ45 interfaces. Field upgradeable accessory to add ports to expandable IOLAN SCG Console Servers.</p>           | IOLAN G16 RS-Multi Card | 04033820         |

### Cable Accessories

**Please click here to see what adapters you may need**

|   |   |               |          |
|---|---|---------------|----------|
|  | <p>3 meter RJ45 to RJ45 CAT5 Rolled (crossover) cable #1100370-10 for use with IOLAN C models</p>           | 3m Cbl-Rolled | 04005130 |
|  | <p>DBA0010C - RJ-45F to DB-25F crossover (DTE) adapter #1100270-10 for IOLAN. View Pinout</p>               | DBA0010C      | 04007010 |
|  | <p>DBA0011C - RJ-45F to DB-25M crossover (DTE) adapter #1100280-10 for IOLAN. View Pinout</p>               | DBA0011C      | 04007020 |
|  | <p>DBA0013C - RJ-45F to DB-25M straight-thru (DCE) adapter #1100290-10 for modems on IOLAN. View Pinout</p> | DBA0013C      | 04007030 |

| Accessory Image   | Description  | Model Number    | Accessory Number |
|---|--|-----------------|------------------|
|    | 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         |
|  | 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         |

| Accessory Image   | Description   | Model Number          | Accessory Number |
|---|---|-----------------------|------------------|
|    | 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         |

**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 |



| <b>Accessory Image</b> | <b>Description</b>  | <b>Model Number</b>      | <b>Accessory Number</b> |
|------------------------|---|--------------------------|-------------------------|
|                        | 32-34 Port Terminal/Device/Console Servers - Express Replacement        | NSS-32<br>portEXPRESSREP | SERNSS32                |
|                        | 32-34 Port Terminal/Device/Console Servers - Express Replacement French | NSS-32<br>PortXPRESSREPF | SERNSS32F               |
|                        | 48-50 Port Terminal/Device/Console Servers - Express Replacement        | NSS-48<br>portXPRESSREP  | SERNSS48                |
|                        | 48-50 Port Terminal/Device/Console Servers - Express Replacement French | NSS-48<br>PortXPRESSREPF | SERNSS48F               |

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