

# IOLAN SCS Console Server

## In-Band and Out-of-Band IT Infrastructure Management

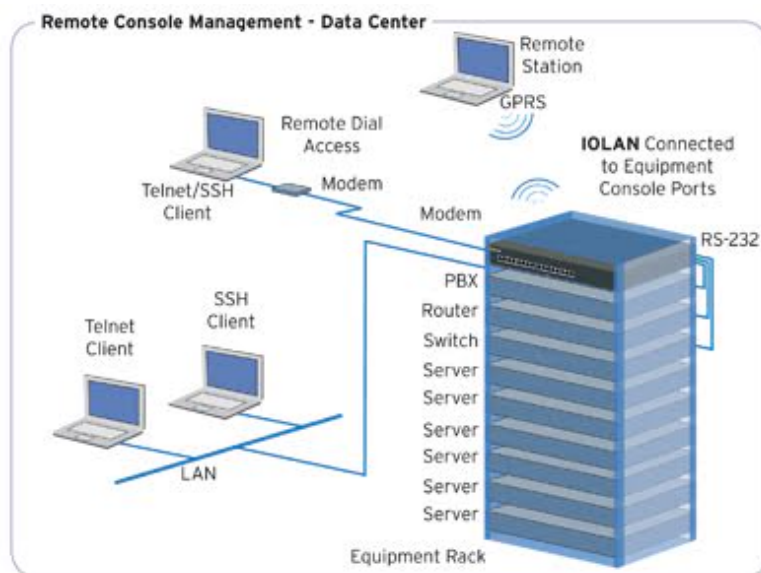


- 8, 16, 32 or 48 RS-232 serial port interfaces
- Dual 10/100/1000 Ethernet support with **Redundant Path Technology**
- PCI Slot for integrated out-of-band access
- Advanced AAA security and encryption to meet all data center compliance policies

**IOLAN SCS Console Servers** have a truly fault tolerant design to minimize downtime and provide reliable, secure remote device management. With built-in dual Ethernet and Redundant Path technology the IOLAN SCS provides assured serial console port access, offering the most reliable solution for managing data center and remote branch equipment... all at the best price performance.

### Why IOLAN SCS Console Servers are the preferred choice:

- High performance 400 MHz, 750 MIPS, 32 bit processor with integrated hardware encryption processor for the best throughput
- **Clustering** – Provides a single view of all out of band console ports. Ideal for large data centers
- Next Generation IP support (IPv6) for investment protection and network compatibility
- Primary/Backup host functionality enables automatic connections to alternate hosts should the primary TCP connection go down
- **EasyPort Web** – Access equipment serial console ports by using your java-enabled Internet browser
- **Dynamic DNS** – Easy console management access from anywhere on the Internet
- Java-free browser access to remote serial console ports via Telnet and SSH
- Lifetime warranty – best investment protection available



## Secure Serial Console Management

IOLAN SCS Console Servers enable administrators to securely access remote serial console ports on equipment such as PBX, servers, routers, network storage equipment and security appliances through an IP network. Data management information is protected through standard encryption tools such as Secure Shell (SSH) and Secure Sockets Layer (SSL). Access by authorized users is assured via authentication schemes such as RADIUS, TACACS+, LDAP, Kerberos, NIS and RSA Security's SecurID tokens.

By using encryption technologies, an IOLAN Console Server protects sensitive and confidential data before being sent across a corporate Intranet or public Internet. For compatibility with peer encryption devices, all of the major encryption ciphers such as AES, 3DES, RC4, RC2 and CAST128 are fully supported.

Recognized as the most secure method for communicating to remote private networks over the Internet, the IPSec standard provides robust authentication and encryption of IP packets at the network layer of the OSI model. As a standard it is ideal for multi-vendor interoperability within a network, providing flexibility and the ability to match the right solution for a particular application.

## High Availability Access

The IOLAN SCS has built-in fault tolerant capabilities to ensure secure and reliable access for managing important mission critical equipment. Dual Ethernet interfaces on the IOLAN SCS provide redundant network paths while dual AC power supply models ensure that console management is available even if the primary AC power source fails. For remote administrators that require access from home, on the road or in the event of a total network failure, an optional IOLAN V.92 modem card delivers a solid, integrated solution with direct phone line attachment via its onboard RJ11 jack.

Protection against electrostatic discharges and power surges is provided with robust 15Kv ESD protection circuitry on each serial port.

## Advanced IP Technology

With support for Next Generation IP (IPv6) the IOLAN range provides organizations with investment protection to meet this rapidly growing standard.

Demand for IPv6, which is compatible with IPv4 addressing schemes, is driven by the need for more IP address. With the implementation and rollout of advanced cellular networks, a robust method is needed to handle the huge influx of new IP addressable devices on the Internet. In fact, the US Department of Defense has mandated that all equipment purchased be IPv6 compatible. In addition, all major Operating Systems such as Windows, Linux, Unix and Solaris, as well as routers, have built-in support for IPv6.

It is therefore important for end users and integrators to select networking equipment that incorporates the IPv6 standard. The IOLAN line with support for IPv6 already built in, is the best choice in serial to Ethernet technology.

## Lifetime Warranty

All Perle IOLAN SCS models are backed by the best service and support in the industry including Perle's unique lifetime warranty. Since 1976 Perle has been providing its customers with networking products that have the highest levels of performance, flexibility and quality.

## Software Features - IOLAN SCS Console Server

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Serial Port Access                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>• Connect directly using Telnet / SSH by port and IP address</li> <li>• <b>Connect with EasyPort menu by Telnet / SSH</b></li> <li>• <b>Use an internet browser to access with HTTP or secure HTTPS via EasyPort Web menu</b></li> <li>• Java-free browser access to remote serial console ports via Telnet and SSH</li> <li>• <b>Ports can be assigned a specific IP address ( aliasing )</b></li> <li>• Multisession capability enables multiple users to access ports simultaneously</li> <li>• <b>Multihost access enables multiple hosts/servers to share serial ports</b></li> </ul> |
| Accessibility                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• In-band ( ethernet ) and out-of-band ( dial-up modem ) support</li> <li>• <b>Dynamic DNS enables users to find a console server from anywhere on the Internet</b></li> <li>• <b>Domain name control through DHCP option 81</b></li> <li>• IPV6 and IPV4 addressing support</li> </ul>                                                                                                                                                                                                                                                                                                    |
| Availability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Primary/Backup host functionality enables automatic connections to alternate host(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## Security

- SSH v1 and v2
- PCI DSS Compliance: TLS v1.2, TLS v1.1, TLS v1.0, SSL v3.0, SSL v2.0
- SSL Server and SSL client mode capability
- SSL Peer authentication
- **IPSec VPN : NAT Traversal, ESP authentication protocol**
- SSH ciphers: AES-CTR, AES-GCM and ChaCha20-poly1305
- 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
- X.509 Certificate verification: RSA, DSA
- Certificate authority (CA) list
- Local database
- RADIUS Authentication, Authorization and Accounting
- TACACS+ Authentication, Authorization and Accounting
- LDAP, NIS, Kerberos Authentication
- RSA SecureID-agent or via RADIUS Authentication
- SNMP v3 Authentication and Encryption support
- IP Address filtering
- Disable unused daemons
- Active Directory via LDAP

## Terminal Server

- Telnet
- SSH v1 and v2
- Rlogin
- Auto session login
- LPD, RCP printer
- MOTD - Message of the day

## Serial machine to Ethernet

- **Tunnel raw serial data across Ethernet - clear or encrypted**
- Raw serial data over TCP/IP
- Raw serial data over UDP
- **Serial data control of packetized data**
- **Share serial ports with multiple hosts/servers**
- Virtual modem simulates a modem connection - assign IP address by AT phone number
- Virtual modem data can be sent over the Ethernet link with or without SSL encryption
- **TruePort com/tty redirector** for serial based applications on Windows, Linux, Solaris, SCO HP UX, NCR UNIX and AIX. Perle supports the most comprehensive driver set in the industry. For a complete list of all the latest drivers click [here](#)
- **TrueSerial** packet technology provides the most authentic serial connections across Ethernet ensuring serial protocol integrity
- RFC 2217 standard for transport of serial data and RS232 control signals
- Customizable or fixed serial baud rates
- **Plug-ins allow customer or Perle provided plug-ins for special applications**
- **Software Development Kit ( SDK ) available**
- **Serial encapsulation of industrial protocols such as ModBus, DNP3 and IEC-870-5-101**
- **ModBus TCP gateway enables serial Modbus ASCII/RTU device connection to ModBus TCP**
- **Data logging will store serial data received when no active TCP session and forward to network peer once session re-established - 32K bytes circular per port**

## Console Management

- **Sun / Oracle Solaris Break Safe**
- Local port buffer viewing - 256K bytes per port
- External port buffering via NFS, encrypted NFS and Syslog
- Event notification
- **Clustering - central console server enables access ports across multiple console servers**
- **Windows Server 2003/2008 EMS - SAC support GUI access to text-based Special Administrative Console**

## Remote Access

|                      |                                                                                                                                                                                                                                                            |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dial, direct serial  | PPP, PAP/CHAP, SLIP                                                                                                                                                                                                                                        |
|                      | <b>HTTP tunneling</b> 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. See <b>Automatic DNS update</b> support for details |

|                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                 |
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| <b>IPSEC VPN client/servers</b>                                                                                                                                                                                                                                                                                                                 | <ul style="list-style-type: none"> <li>• Microsoft L2TP/IPSEC VPN client ( native to Windows XP)</li> <li>• Microsoft IPSEC VPN Client ( native to Windows Vista )</li> <li>• Cisco routers with IPSEC VPN feature set</li> <li>• Perle IOLAN SDS/STS and SCS models</li> </ul> |
| <b>OA&amp;M ( Operations, Administration and Management )</b>                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• SNMP V3 - read and write, Perle MIB</li> <li>• Syslog</li> <li>• Perle Device Manager - Windows based utility for large scale deployments</li> <li>• Configurable default configuration</li> <li>• <b>Installation Wizard</b></li> <li>• Set a Personalized Factory Default for your IOLANs</li> </ul> |                                                                                                                                                                                                                                                                                 |
| <b>Protocols</b>                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                 |
| IPv6, IPv4, TCP/IP, Reverse SSH, SSH, SSL, IPsec/IPv4, IPsec/IPv6, L2TP/IPsec, CIDR, RIPv2/MD5, ARP, RARP, UDP, UDP Multicast, ICMP, BOOTP, DHCP, TFTP, SFTP, SNTP, Telnet, raw, reverse Telnet, LPD, RCP, DNS, Dynamic DNS, WINS, HTTP, HTTPS, SMTP, SNMPV3, PPP, PAP/CHAP, SLIP, CSLIP, RFC2217, MSCHAP                                       |                                                                                                                                                                                                                                                                                 |

|                                                                                    |                                |                                                                                     |                          |                          |
|------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------|--------------------------|--------------------------|
| Specifications                                                                     |                                |                                                                                     |                          |                          |
| Lifetime limited warranty                                                          | Reach, RoHS and WEEE Compliant | HTSUS Number:<br>8517.62.0020                                                       | UNSPSC Code:<br>43222625 | ECCN:<br>5A992           |
|  |                                |  |                          | CCATS Number:<br>G168387 |
| CPU                                                                                |                                |                                                                                     |                          |                          |
| Processor                                                                          |                                | MPC8349E, 400 Mhz, 750 MIPS                                                         |                          |                          |

| Memory                 |                                                                                                                             |                                  |                                                           |                                                                                        |                      |                                    |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------|------------------------------------|
| RAM                    | <b>SCS8C</b><br>64                                                                                                          | <b>SCS8C</b><br><b>DAC</b><br>64 | <b>SCS16C</b><br>&<br><b>SCS16C-</b><br><b>DSFP</b><br>64 | <b>SCS16C</b><br><b>DAC &amp;</b><br><b>SCS16C-</b><br><b>DSFP</b><br><b>DAC</b><br>64 | <b>SCS32C</b><br>128 | <b>SCS32C</b><br><b>DAC</b><br>128 |
| <b>SCS48C</b><br>128   | <b>SCS48C DAC</b><br>128                                                                                                    |                                  |                                                           |                                                                                        |                      |                                    |
| Flash                  | <b>SCS8C</b><br>16                                                                                                          | <b>SCS8C</b><br><b>DAC</b><br>16 | <b>SCS16C</b><br>&<br><b>SCS16C-</b><br><b>DSFP</b><br>16 | <b>SCS16C</b><br><b>DAC &amp;</b><br><b>SCS16C-</b><br><b>DSFP</b><br><b>DAC</b><br>16 | <b>SCS32C</b><br>16  | <b>SCS32C</b><br><b>DAC</b><br>16  |
| <b>SCS48C</b><br>16    | <b>SCS48C DAC</b><br>16                                                                                                     |                                  |                                                           |                                                                                        |                      |                                    |
| Interface Ports        |                                                                                                                             |                                  |                                                           |                                                                                        |                      |                                    |
| Number of Serial Ports | <b>SCS8C</b><br>8                                                                                                           | <b>SCS8C</b><br><b>DAC</b><br>8  | <b>SCS16C</b><br>&<br><b>SCS16C-</b><br><b>DSFP</b><br>16 | <b>SCS16C</b><br><b>DAC &amp;</b><br><b>SCS16C-</b><br><b>DSFP</b><br><b>DAC</b><br>16 | <b>SCS32C</b><br>32  | <b>SCS32C</b><br><b>DAC</b><br>32  |
| <b>SCS48C</b><br>48    | <b>SCS48C DAC</b><br>48                                                                                                     |                                  |                                                           |                                                                                        |                      |                                    |
| Serial Port Interface  | RS232 DTE on RJ45                                                                                                           |                                  |                                                           |                                                                                        |                      |                                    |
| Sun / Solaris          | Sun / Oracle 'Solaris' Safe - no “ <i>break signal</i> ” 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<br>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                                                                                                                                                                                               | RS232 on RJ45 with DB9 adapter (provided)                                                                                                                             |                                                             |                                                                                                         |                                                                                                             |                                                          |
| Network                                                                                                                                                                                                           | <b>SCS8C</b><br>Dual<br>10/100/1000<br>Ethernet<br>RJ45                                                                                                               | <b>SCS8C DAC</b><br>Dual<br>10/100/1000<br>Ethernet<br>RJ45 | <b>SCS16C &amp; SCS16C-DSFP</b><br>Dual SFP<br>Slots for<br>Copper or<br>Fiber<br>Network<br>Connection | <b>SCS16C DAC &amp; SCS16C-DSFP</b><br>Dual SFP<br>Slots for<br>Copper or<br>Fiber<br>Network<br>Connection | <b>SCS32C</b><br>Dual<br>10/100/1000<br>Ethernet<br>RJ45 |
| <div> <div> <b>SCS32C DAC</b><br/> Dual 10/100/1000 Ethernet RJ45 </div> <div> <b>SCS48C</b><br/> Dual 10/100/1000 Ethernet RJ45 </div> <div> <b>SCS48C DAC</b><br/> Dual 10/100/1000 Ethernet RJ45 </div> </div> |                                                                                                                                                                       |                                                             |                                                                                                         |                                                                                                             |                                                          |
|                                                                                                                                                                                                                   | Software selectable Ethernet speed 10/100/1000, Auto                                                                                                                  |                                                             |                                                                                                         |                                                                                                             |                                                          |
|                                                                                                                                                                                                                   | Software selectable Half/Full/Auto duplex                                                                                                                             |                                                             |                                                                                                         |                                                                                                             |                                                          |
| Ethernet Isolation                                                                                                                                                                                                | 1.5Kv Magnetic Isolation                                                                                                                                              |                                                             |                                                                                                         |                                                                                                             |                                                          |
| Fiber Support                                                                                                                                                                                                     | Dual SFP slots are available on the SCS16C-DSFP model. For all other models, Perle supports <b>3rd party Gigabit Fiber Cards</b> via the standard PCI Interface Slot. |                                                             |                                                                                                         |                                                                                                             |                                                          |



| Power                                |                                                                                                                                                                                                                                                                                                                                           |                                                 |                                                      |                                                                                     |                       |                                                  |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------|
| Redundant Power                      | <b>SCS8C</b>                                                                                                                                                                                                                                                                                                                              | <b>SCS8C<br/>DAC</b><br>Dual<br>power<br>supply | <b>SCS16C<br/>&amp;<br/>SCS16C-<br/>DSFP</b>         | <b>SCS16C<br/>DAC &amp;<br/>SCS16C-<br/>DSFP<br/>DAC</b><br>Dual<br>power<br>supply | <b>SCS32C</b>         | <b>SCS32C<br/>DAC</b><br>Dual<br>power<br>supply |
| <b>SCS48C</b>                        | <b>SCS48C DAC</b><br>Dual power supply                                                                                                                                                                                                                                                                                                    |                                                 |                                                      |                                                                                     |                       |                                                  |
| Power Supply                         | <ul style="list-style-type: none"> <li>• USA models - IEC320-C13 to NEMA 5-15P line cord</li> <li>• UK models - IEC320-C13 to BS1363 line cord</li> <li>• EU models - IEC320-C13 to CEE 7/7 Schuko</li> <li>• South Africa Models - IEC320-C13 to BS546 line cord</li> <li>• Australia models - IEC320-C13 to AS3112 line cord</li> </ul> |                                                 |                                                      |                                                                                     |                       |                                                  |
| Nominal Input Voltage                | 110/230v AC                                                                                                                                                                                                                                                                                                                               |                                                 |                                                      |                                                                                     |                       |                                                  |
| Input Voltage Range                  | 100-240v AC                                                                                                                                                                                                                                                                                                                               |                                                 |                                                      |                                                                                     |                       |                                                  |
| AC Input Frequency                   | 47-63Hz                                                                                                                                                                                                                                                                                                                                   |                                                 |                                                      |                                                                                     |                       |                                                  |
| Current Consumption @ 100v<br>(Amps) | <b>SCS8C</b><br>0.17                                                                                                                                                                                                                                                                                                                      | <b>SCS8C<br/>DAC</b><br>0.20                    | <b>SCS16C<br/>&amp;<br/>SCS16C-<br/>DSFP</b><br>0.18 | <b>SCS16C<br/>DAC &amp;<br/>SCS16C-<br/>DSFP<br/>DAC</b><br>0.21                    | <b>SCS32C</b><br>0.19 | <b>SCS32C<br/>DAC</b><br>0.22                    |
| <b>SCS48C</b><br>0.20                | <b>SCS48C DAC</b><br>0.23                                                                                                                                                                                                                                                                                                                 |                                                 |                                                      |                                                                                     |                       |                                                  |

|                                   |                           |                          |                                         |                                                 |                       |                           |
|-----------------------------------|---------------------------|--------------------------|-----------------------------------------|-------------------------------------------------|-----------------------|---------------------------|
| Current Consumption @ 240v (Amps) | <b>SCS8C</b><br>0.07      | <b>SCS8C DAC</b><br>0.08 | <b>SCS16C &amp; SCS16C-DSFP</b><br>0.08 | <b>SCS16C DAC &amp; SCS16C-DSFP DAC</b><br>0.09 | <b>SCS32C</b><br>0.08 | <b>SCS32C DAC</b><br>0.09 |
| <b>SCS48C</b><br>0.08             | <b>SCS48C DAC</b><br>0.09 |                          |                                         |                                                 |                       |                           |

|                                   |                           |                          |                                       |                                                 |                     |                           |
|-----------------------------------|---------------------------|--------------------------|---------------------------------------|-------------------------------------------------|---------------------|---------------------------|
| Typical Power Consumption (Watts) | <b>SCS8C</b><br>17        | <b>SCS8C DAC</b><br>19.5 | <b>SCS16C &amp; SCS16C-DSFP</b><br>18 | <b>SCS16C DAC &amp; SCS16C-DSFP DAC</b><br>20.5 | <b>SCS32C</b><br>19 | <b>SCS32C DAC</b><br>21.5 |
| <b>SCS48C</b><br>20               | <b>SCS48C DAC</b><br>22.5 |                          |                                       |                                                 |                     |                           |

|                       |                                                                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Power Line Protection | Fast transients: 1 KV (EN61000-4-4 Criteria B)<br><br>Surge: 2KV (EN61000-4-5 common mode), 1KV (EN61000-4-5 differential and common modes) |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|

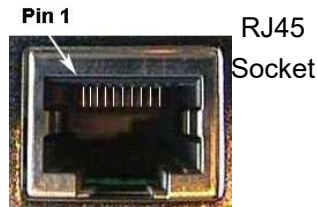
|            |                                                                                                                                                                     |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Indicators |                                                                                                                                                                     |
| LEDs       | <ul style="list-style-type: none"><li>• Power</li><li>• System Ready</li><li>• Network Link activity</li><li>• Serial: Transmit and Receive data per port</li></ul> |

|                              |                         |                        |                                       |                                               |                     |                         |
|------------------------------|-------------------------|------------------------|---------------------------------------|-----------------------------------------------|---------------------|-------------------------|
| Environmental Specifications |                         |                        |                                       |                                               |                     |                         |
| Heat Output (BTU/HR)         | <b>SCS8C</b><br>58      | <b>SCS8C DAC</b><br>67 | <b>SCS16C &amp; SCS16C-DSFP</b><br>62 | <b>SCS16C DAC &amp; SCS16C-DSFP DAC</b><br>70 | <b>SCS32C</b><br>65 | <b>SCS32C DAC</b><br>74 |
| <b>SCS48C</b><br>69          | <b>SCS48C DAC</b><br>77 |                        |                                       |                                               |                     |                         |

|                           |                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MTBF (Hours)              | <div> <div>SCS8C</div> <div>130539 Hours</div> </div> <div> <div>SCS8C DAC</div> <div>99587 Hours</div> </div> <div> <div>SCS16C &amp; SCS16C-DSFP</div> <div>122926 Hours</div> </div> <div> <div>SCS16C DAC &amp; SCS16C-DSFP DAC</div> <div>95094 Hours</div> </div> <div> <div>SCS32C</div> <div>111053 Hours</div> </div> <div> <div>SCS32C DAC</div> <div>87829 Hours</div> </div> |
| SCS48C<br>115980 Hours    | SCS48C DAC<br>90884 Hours                                                                                                                                                                                                                                                                                                                                                                |
|                           | Calculation model based on MIL-HDBK-217-FN2 @ 30°C                                                                                                                                                                                                                                                                                                                                       |
| Operating Temperature     | 0°C to 55°C, 32°F to 131°F                                                                                                                                                                                                                                                                                                                                                               |
| Storage Temperature       | -40°C to 85°C, -40°F to 185°F                                                                                                                                                                                                                                                                                                                                                            |
| Humidity                  | 5 to 95% (non condensing) for both storage and operation.                                                                                                                                                                                                                                                                                                                                |
| Case                      | SECC Zinc plated sheet metal (1 mm)                                                                                                                                                                                                                                                                                                                                                      |
| Ingress Protection Rating | IP30                                                                                                                                                                                                                                                                                                                                                                                     |
| Mounting                  | 1U - 19' rack, front and rear mounting hardware included                                                                                                                                                                                                                                                                                                                                 |
| Product Dimensions        |                                                                                                                                                                                                                                                                                                                                                                                          |
| Weight                    | <div> <div>SCS8C</div> <div>3.0 kg</div> </div> <div> <div>SCS8C DAC</div> <div>3.2 kg</div> </div> <div> <div>SCS16C &amp; SCS16C-DSFP</div> <div>3.1 kg</div> </div> <div> <div>SCS16C DAC &amp; SCS16C-DSFP DAC</div> <div>3.4 kg</div> </div> <div> <div>SCS32C</div> <div>3.2 kg</div> </div> <div> <div>SCS32C DAC</div> <div>3.5 kg</div> </div>                                  |
| SCS48C<br>3.5 kg          | SCS48C DAC<br>3.6 kg                                                                                                                                                                                                                                                                                                                                                                     |
| Dimensions                | 1U Rack form factor - 26.4 x 43.4 x 4.4 (cm), 10.38 x 17.1 x 1.75 (in)                                                                                                                                                                                                                                                                                                                   |
| Packaging                 |                                                                                                                                                                                                                                                                                                                                                                                          |
| Shipping Dimensions       | 59 x 36 x 9cm                                                                                                                                                                                                                                                                                                                                                                            |

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Shipping Weight                               | <div><div>SCS8C</div><div>4.0 kg</div></div> <div><div>SCS8C</div><div>DAC</div><div>4.2 kg</div></div> <div><div>SCS16C</div><div>&amp;</div><div>SCS16C-</div><div>DSFP</div><div>4.2 kg</div></div> <div><div>SCS16C</div><div>DAC &amp;</div><div>SCS16C-</div><div>DSFP</div><div>DAC</div><div>4.4 kg</div></div> <div><div>SCS32C</div><div>4.4 kg</div></div> <div><div>SCS32C</div><div>DAC</div><div>4.8 kg</div></div> |
| <div><div>SCS48C</div><div>4.5 kg</div></div> | <div><div>SCS48C</div><div>DAC</div><div>4.9 kg</div></div>                                                                                                                                                                                                                                                                                                                                                                       |
| Regulatory Approvals                          |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Emissions                                     | <ul style="list-style-type: none"><li>FCC Part 15, Subpart B, Class A</li><li>CFR47:2003, Chapter 1, Part 15 Subpart B,(USA) Class A</li><li>ICES-003, Issue 4, February 2004 (Canada)</li><li>CISPR 32 / EN 55032</li><li>EN55011 (CISPR11)</li><li>EN61000-3-2 : 2010, Limits for Harmonic Current Emissions</li><li>EN61000-3-3 : 2010, Limits of Voltage Fluctuations and Flicker</li></ul>                                   |
| Immunity                                      | <ul style="list-style-type: none"><li>CISPR 35 / EN 55035</li><li>EN61000-4-2: Electrostatic Discharge</li><li>EN61000-4-3: RF Electromagnetic Field Modulated</li><li>EN61000-4-4: Fast Transients</li><li>EN61000-4-5: Surge</li><li>EN61000-4-6: RF Continuous Conducted</li><li>EN61000-4-8: Power-Frequency Magnetic Field</li><li>EN61000-4-11: Voltage Dips and Voltage Interruptions</li></ul>                            |
| Safety                                        | <ul style="list-style-type: none"><li>UL/EN/IEC 62368-1</li><li>CAN/CSA C22.2 No. 62368-1</li><li>IEC 60950-1(ed 2); am1, am2 and</li><li>EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013</li><li>CAN/CSA-C22.2 No. 60950-1-03 and ANSI/UL 60950-1,</li><li>First Edition April 1st 2003 (Recognized Component)</li></ul>                                                                                                       |

## IOLAN SCSC RJ45 Serial Connector Pinout



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

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

## Product List



**IOLAN SCS48C - 48 x RJ45 serial ports, single AC power, RS232 interface, Dual 10/100/1000 Ethernet, PCI slot for modem or wireless card, advanced feature set**

### Power Cord & Part Number(s)

| USA      | UK       | EU       | SA       | AUS      |
|----------|----------|----------|----------|----------|
| 04030744 | 04030741 | 04030742 | 04030745 | 04030746 |



**IOLAN SCS48C DAC - 48 x RJ45 serial ports, Dual AC power, RS232 interface, Dual 10/100/1000 Ethernet, PCI slot for modem or wireless card, advanced feature set**

### Power Cord & Part Number(s)

| USA      | UK       | EU       | SA       | AUS      |
|----------|----------|----------|----------|----------|
| 04030754 | 04030751 | 04030752 | 04030755 | 04030756 |



**IOLAN SCS32C - 32 x RJ45 serial ports, Single AC power**, RS232 interface, Dual 10/100/1000 Ethernet, PCI slot for modem or wireless card, advanced feature set

#### Power Cord & Part Number(s)

| USA      | UK       | EU       | SA       | AUS      |
|----------|----------|----------|----------|----------|
| 04030764 | 04030761 | 04030762 | 04030765 | 04030766 |



**IOLAN SCS32C DAC - 32 x RJ45 serial ports, Dual AC power**, RS232 interface, Dual 10/100/1000 Ethernet, PCI slot for modem or wireless card, advanced feature set

#### Power Cord & Part Number(s)

| USA      | UK       | EU       | SA       | AUS      |
|----------|----------|----------|----------|----------|
| 04030774 | 04030771 | 04030772 | 04030775 | 04030776 |



**IOLAN SCS16C - 16 x RJ45 serial ports, Single AC power**, RS232 interface, Dual 10/100/1000 Ethernet, PCI slot for modem or wireless card, advanced feature set

#### Power Cord & Part Number(s)

| USA      | UK       | EU       | SA       | AUS      |
|----------|----------|----------|----------|----------|
| 04030784 | 04030781 | 04030782 | 04030785 | 04030786 |



**IOLAN SCS16C-DSFP Secure Console Server**, 16 x RJ45 connectors with Sun/Cisco pinout, RS232 interface, Dual SFP , PCI slot for V.92 modem card, advanced data encryption, user authentication and event management security features included, IPv6, COM port redirector, 15kv ESD.

#### Power Cord & Part Number(s)

| USA      | UK       | EU       | SA       | AUS      | None     |
|----------|----------|----------|----------|----------|----------|
| 04031544 | 04031541 | 04031542 | 04031545 | 04031546 | 04031548 |



**IOLAN SCS16C DAC - 16 x RJ45 serial ports, Dual AC power**, RS232 interface, Dual 10/100/1000 Ethernet, PCI slot for modem or wireless card, advanced feature set

#### Power Cord & Part Number(s)

| USA      | UK       | EU       | SA       | AUS      |
|----------|----------|----------|----------|----------|
| 04030794 | 04030791 | 04030792 | 04030795 | 04030796 |



**IOLAN SCS16C-DSFP DAC Secure Console Server: 16 x RJ45 connectors with Sun/Cisco pinout, Dual AC power, RS232 interface, Dual SFP , PCI slot for V.92 modem card, advanced data encryption, user authentication and event management security features included, IPv6, COM port redirector, 15kv ESD**

#### Power Cord & Part Number(s)

| USA      | UK       | EU       | SA       | AUS      | None     |
|----------|----------|----------|----------|----------|----------|
| 04031554 | 04031551 | 04031552 | 04031555 | 04031556 | 04031558 |



**IOLAN SCS8C - 8 x RJ45 serial ports, Single AC power, RS232 interface, Dual 10/100/1000 Ethernet, PCI slot for modem or wireless card, advanced feature set**

#### Power Cord & Part Number(s)

| USA      | UK       | EU       | SA       | AUS      |
|----------|----------|----------|----------|----------|
| 04030904 | 04030901 | 04030902 | 04030905 | 04030906 |



**IOLAN SCS8C DAC - 8 x RJ45 serial ports, Dual AC power, RS232 interface, Dual 10/100/1000 Ethernet, PCI slot for modem or wireless card, advanced feature set**

#### Power Cord & Part Number(s)

| USA      | UK       | EU       | SA       | AUS      |
|----------|----------|----------|----------|----------|
| 04030914 | 04030911 | 04030912 | 04030915 | 04030916 |

### Related Accessories

#### Cable Accessories



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

**04005120**



3 meter RJ45 to RJ45 CAT5 Rolled (crossover) cable #1100370-10. For use with Perle

**04005130**



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

**04007010**



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

**04007020**



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

**04007030**



DBA0020C - RJ-45F to DB-9F crossover (DTE) adapter #1100300-10 for Perle serial console

**04007040**



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

**04007050**



DBA0031C - RJ-45m to RJ-45F SUN/Cisco crossover adapter #1100320-10 for

**04007060**



C Model Kit Includes: (1) RJ-45 to DB-25 DTE Male adapter, (1) RJ-45 to DB-25 DCE Male adapter,

**04007070**



DBA0023C - RJ-45F to DB-9M straight-thru (DCE) adapter #1100350-11 for modems on IOLAN

**04007210**



DBA0031C 8pck - 8 pack of #04007060 RJ45M to RJ45F Sun/Cisco crossover adapter for IOLAN.

**04031290**



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

**04031300**



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

**04031310**



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

**04031320**



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

**04031330**





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

**04031340**

## Accessories



DIN Rail Mounting Kit for select IOLAN Rack models

**04032490**

## Maintenance agreements - Console Server / Device Server / Terminal Server



8 Port  
Terminal/Device/Console  
Servers - Express  
Replacement 1 Year  
Maintenance Contract

**SERNSS08**



8 Port  
Terminal/Device/Console  
Servers - Express  
Replacement 1 Year  
Maintenance Contract,

**SERNSS08F**



16 to 18 Port  
Terminal/Device/Console  
Servers - Express  
Replacement 1 Year  
Maintenance Contract

**SERNSS16**



16 to 18 Port  
Terminal/Device/Console  
Servers - Express  
Replacement 1 Year  
Maintenance Contract,

**SERNSS16F**



32 to 34 Port  
Terminal/Device/Console  
Servers - Express  
Replacement 1 Year  
Maintenance Contract

**SERNSS32**



32 to 34 Port  
Terminal/Device/Console  
Servers - Express  
Replacement 1 Year  
Maintenance Contract,

**SERNSS32F**



48 to 50 Port  
Terminal/Device/Console  
Servers - Express  
Replacement 1 Year  
Maintenance Contract

**SERNSS48**



48 to 50 Port  
Terminal/Device/Console  
Servers - Express  
Replacement 1 Year  
Maintenance Contract,

**SERNSS48F**