

IOLAN SDG W Serial Device Servers

Wireless LAN Serial to Ethernet



- High performance WLAN (Wi-Fi ®) : Dual band radio supporting IEEE 802.11 a,b,g,n
- Wireless speeds up to 150Mbps
- 1, 2 or 4 software selectable RS232/422/485 serial port interfaces
- High-Speed Gigabit Ethernet (10/100/1000 Base-T)
- Advanced security features for data encryption, user authentication and event management
- Wireless Infrastructure and peer to peer connectivity modes

For secure, High-Speed serial to Ethernet connectivity over wireless LAN applications, the IOLAN SDG W Device Server is the most advanced compact product available on the market today. Delivering high performance in a compact size, an IOLAN SDG W offers a support for a broad range of high performance Wireless LAN technology, extensive security, flexibility and next generation IPv6 technology making it ideal for applications that require remote serial device/console management, data capture or monitoring.

Why IOLAN SDG Wireless Device Servers are the preferred choice:

- Broad range support of Wireless LAN Technology: IEEE 802.11 a,b,g,n @ 2.4Ghz/5Ghz
- Fast wireless – speeds up to 150Mbps
- High-Speed Gigabit Ethernet 1000base-T interface including support for 100base-TX and 10base-T
- 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)
- Redundant dual power inputs (barrel and terminal block)
- **TrueSerial®** packet technology delivers the most authentic serial connections across Ethernet for serial protocol integrity
- Indicators for network and serial interfaces for easy troubleshooting
- Plug & Play installation utility eliminates configuration hassles for all IOLAN's on your IP network
- **TruePort** – Perle's com/tty redirector for serial based applications operates on Windows, Vista, Linux, Solaris, SCO and Unix
- Next Generation IP support (IPv6) for investment protection and network compatibility
- Compact and protective solid steel enclosure for tabletop, wall mount or DIN rail mounting
- Java-free browser access to remote serial console ports via Telnet and SSH

Secure Serial to Ethernet Connectivity

The **IOLAN SDG Wireless Device Server** enables 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. Sensitive data such as credit card holder 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 can protect sensitive and confidential data from a serial device such as a credit card reader 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.

IOLAN Device Server Plug-ins

By choosing a Perle IOLAN Device Server you can rest assured that virtually any device with a serial COM port will operate in conjunction with your desired application exactly as it did when you had it directly connected. In the unlikely event that the Perle IOLAN Device Server does not enable this out of the box, *Perle will make it work*.

Perle IOLAN Device Servers utilize customer installable "**Device Plug-ins**" to successfully network devices where other solutions have failed. **Request a free engineering consultation now.**

Advanced IP Technology

With support for Next Generation IP (IPv6) the **IOLAN Serial to Ethernet Device Server** 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.

Flexible and Reliable Serial to Ethernet Connections

An **IOLAN SDG W Device Server** is ideal for wirelessly 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. You can also tunnel serial data between devices across an IP network.

Perle's Device Management software provides better centralized control of multiple units resulting in maximum uptime for your remote equipment.

All IOLAN SDG W models have added protection against electrostatic discharges and power surges with robust 15Kv ESD protection circuitry enabling organizations to utilize this solution in the field with confidence.

Lifetime Warranty

All **Perle IOLAN SDG Serial to Ethernet Device Servers** 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.

Wi-Fi is a registered trademark of Wi-Fi Alliance Corporation

Software Features - IOLAN SDG W Serial Device Servers

Topology Support
<ul style="list-style-type: none"> Serial to WLAN Serial to ethernet Ethernet to WLAN Infrastructure (to Access Point) and secure peer to peer using SoftAP (vs legacy “Ad-Hoc”)
Serial Port Access
<ul style="list-style-type: none"> Connect directly using Telnet / SSH by port and IP address Connect with EasyPort menu by Telnet / SSH Use an internet browser to access with HTTP or secure HTTPS via EasyPort Web menu Java-free browser access to remote serial console ports via Telnet and SSH Ports can be assigned a specific IP address (aliasing) Multisession capability enables multiple users to access ports simultaneously on 2 and 4 port models Multihost access enables multiple hosts/servers to share serial ports
Accessibility
<ul style="list-style-type: none"> In-band (ethernet) and out-of-band (dial-up modem) support Dynamic DNS enables users to find a console server from anywhere on the Internet Domain name control through DHCP option 81 IPV6 and IPV4 addressing support
Availability
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
- Wireless LAN : WPA-PSK, WPA2-PSK & Enterprise (EAP, PEAP, LEAP), WEP, IEEE 802.11i, IEEE 802.1x supplicant
- 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. 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



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

Automatic DNS Update

Utilize DHCP Opt 81 to set IOLAN domain name for easy name management and with Dynamic DNS support , users on the Internet can access the device server by name without having to know its IP address. See **Automatic DNS update** support for details

IPSEC VPN client/servers	<ul style="list-style-type: none"> • Microsoft L2TP/IPSEC VPN client (native to Windows XP) • Microsoft IPSEC VPN Client (native to Windows Vista) • Cisco routers with IPSEC VPN feature set • Perle IOLAN SDS/STS and SCS models
OA&M (Operations, Administration and Management)	
<ul style="list-style-type: none"> • WiFi Protected Setup (WPS) • SNMP V3 - read and write, Perle MIB • Syslog • Perle Device Manager - Windows based utility for large scale deployments • Configurable default configuration • Installation Wizard • Set a Personalized Factory Default for your IOLANs 	
Protocols	
<p>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</p>	

Hardware Specifications - IOLAN SDG W Serial Device Servers

CPU		
Processor	600 Mhz ARM processor	
Memory		
RAM	512 MB	
Flash	4000 MB	
Interface Ports		
Number of Serial Ports	IOLAN SDG1/2 W 1 or 2 (DB9M)	IOLAN SDG4 W 4 (RJ45)
Serial Port Interface	Software selectable EIA232/422/485	
Back of product	IOLAN SDG1/2 W 	IOLAN SDG4 W 
Sun / Solaris	Sun / Oracle 'Solaris' Safe - no “break signal” sent during power cycle causing costly server re-boots or downtime	
Serial Port Speeds	300bps to 230Kbps with customizable baud rate support	
Data Bits	Configurable for 5,6,7 or 8-bit protocol support Use TruePort to transparently pass 9-bit serial data	
Parity	Odd, Even, Mark, Space, None	
Flow Control	Hardware, Software, Both, None	
Serial Port Protection	15Kv Electrostatic Discharge Protection (ESD)	
Local Console Ports	RS232 on Serial Port	

Network	<ul style="list-style-type: none"> • Autosensing 1000Base-T / • 100Base-TX / 10Base-T • Auto-MDIX • Software selectable Ethernet speed 1000/100/10 • Software selectable Half/Full/Auto duplex
Ethernet Isolation	1.5Kv Magnetic Isolation
Integrated Wireless Access	
Wireless LAN standards	<ul style="list-style-type: none"> • IEEE 802.11a • IEEE 802.11b • IEEE 802.11g • IEEE 802.11n • IEEE 802.11i
Wireless Topology	Infrastructure (AP) and Peer to Peer- (SoftAP) modes
Wireless Radio	Dual-Band Radio ; 2.4GHz and 5GHz 20, 40Mhz SISO 2.4-GHz
Maximal Ratio Combining (MRC), Rx Diversity	2.4 GHz MRC support for up to 1.4 Extended Range and 5 GHz Diversity Capable
Wireless Data Rates	<ul style="list-style-type: none"> • 802.11n: 15, 30, 45, 60, 90, 120, 135, 150 Mbps (40Mhz channel @ 400ns Short GI) • 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11b: 1, 2, 5.5, 11 Mbps
Operational Frequency Range (MHz)	<ul style="list-style-type: none"> • 2412 to 2484 MHz • 4910 to 5825 MHz
Modulation	DSSS, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM

Wireless Receiver Sensitivity in dBm (2.4Ghz SISO)	802.11b/g (20 MHz channel) <ul style="list-style-type: none"> • 1 Mbps: -95.0 • 2 Mbps: -92.0 • 5.5 Mbps: -89.2 • 6 Mbps: -91.0 • 9 Mbps: -89.0 • 11 Mbps: -86.3 • 12 Mbps: -88.0 • 18 Mbps: -85.5 • 24 Mbps: -82.5 • 36 Mbps: -79.0 • 48 Mbps: -74.0 • 54 Mbps: -72.7 	802.11n (20 MHz channel) @ 400ns GI <ul style="list-style-type: none"> • 7.2 Mbps (MCS0): -89.3 • 14.4 Mbps (MCS1): -86.5 • 21.7 Mbps (MCS2): -84.5 • 28.9 Mbps (MCS3): -81.5 • 43.3 Mbps (MCS4): -78.0 • 57.8 Mbps (MCS5): -73.5 • 65.0 Mbps (MCS6): -71.5 • 72.2 Mbps (MCS7): -70.0 	802.11n (40 MHz channel) @ 400ns GI <ul style="list-style-type: none"> • 15.0 Mbps (MCS0): -89.3 • 30.0 Mbps (MCS1): -86.5 • 45.0 Mbps (MCS2): -84.5 • 60.0 Mbps (MCS3): -81.5 • 90.0 Mbps (MCS4): -78.0 • 120.0 Mbps (MCS5): -73.5 • 135.0 Mbps (MCS6): -71.5 • 150.0 Mbps (MCS7): -70.0
Wireless Transmit Power in dBm (2.4Ghz SISO)	(20 MHz channel) <ul style="list-style-type: none"> • 1 Mbps: 16.0 • 2 Mbps: 16.0 • 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) <ul style="list-style-type: none"> • MCS0 : 14.0 • MCS7 : 11.8

Wireless Receiver Sensitivity in dBm (5Ghz SISO)	802.11a <ul style="list-style-type: none"> 6 Mbps: -92.5 9 Mbps: -90.5 12 Mbps: -90.0 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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 15.0 Mbps (MCS0): -88.5 150.0 Mbps (MCS7): -69.3
Wireless Transmit Power in dBm (5Ghz SISO)	802.11a <ul style="list-style-type: none"> 6 Mbps: 18.0 9 Mbps: 18.0 12 Mbps: 18.0 18 Mbps: 18.0 24 Mbps: 17.4 36 Mbps: 16.5 48 Mbps: 15.8 54 Mbps: 14.5 	802.11n (HT20) @ 400ns GI <ul style="list-style-type: none"> 7.2 Mbps (MCS0): 18.0 14.4 Mbps (MCS1): 18.0 21.7 Mbps (MCS2): 18.0 28.9 Mbps (MCS3): 18.0 43.3 Mbps (MCS4): 16.5 57.8 Mbps (MCS5): 15.8 65.0 Mbps (MCS6): 14.5 72.2 Mbps (MCS7): 12.0 	802.11n (HT40) @ 400ns GI <ul style="list-style-type: none"> 15.0 Mbps (MCS0): 16.5 150.0 Mbps (MCS7): 12.0
Short Guard Interval (SGI)	800ns and 400ns (Short Guard Interval)		

Wireless Antenna	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.
Wireless Security	WEP, WPA-PSK, WPA2-PSK & Enterprise (EAP, PEAP, LEAP), 802.11i (includes hardware-accelerated Advanced Encryption Standard [AES]), 802.1x supplicant
Fast Wireless Roaming	Ideal for mobile applications, the IOLAN can transparently roam between APs (Access Points) that share the same ESS (Extended Service Set)
WiFi Protected Setup (WPS V2)	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
Power	
Power Supply	120 V / 230V AC to 12vDC Wall Power Adaptor included. (Barrel connector, commercial-grade temperature – 0 to 60C)
2 x Power Supply Selection	Use external power 9-30v DC on standard 5.5mm x 9.5mm x 2.1mm barrel socket or 2-pin terminal block
Nominal Input Voltage	12/24v DC
Input Voltage Range	9-30v DC
Typical Power Consumption @ 24v DC (Watts)	<div> IOLAN SDG1/2 W <ul style="list-style-type: none"> • 1 port : 3.96 • 2 port: 4.23 </div> <div> IOLAN SDG4 W <ul style="list-style-type: none"> • 4.44 </div>
Indicators	
LEDs	<ul style="list-style-type: none"> • Power/Ready • Network Link • Network Link Activity • Serial: Transmit and Receive data per port • Wireless Link • Wireless Strength

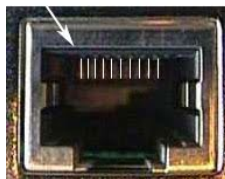
Environmental Specifications		
Heat Output (BTU/HR)	IOLAN SDG1/2 W <ul style="list-style-type: none">• 1 port: 13.5• 2 port: 14.4	IOLAN SDG4 W <ul style="list-style-type: none">• 15.1
MTBF (Hours)	IOLAN SDG1/2 W <ul style="list-style-type: none">• 1 port : 222,675 Hours• 2 port : 206,430 Hours	IOLAN SDG4 W <ul style="list-style-type: none">• 170,530 Hours
Operating Temperature	-40°C to 75°C (-40°F to 167°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	IP40	
Mounting	Wall or Panel mounting, DIN Rail mounting kit optional	
Weight and Dimensions		
Weight	IOLAN SDG1/2 W <ul style="list-style-type: none">• 0.25 kg (0.55 lbs)	IOLAN SDG4 W <ul style="list-style-type: none">• 0.4 kg (0.88 lbs)
Dimensions	IOLAN SDG1/2 W <ul style="list-style-type: none">• 90 x 76 x 24 mm (3.5 x 3.0 x 0.9 in)	IOLAN SDG4 W <ul style="list-style-type: none">• 110 x 111 x 24 mm (4.3 x 4.4 x 0.9 in)
Packaging		
Shipping Dimensions	IOLAN SDG1/2 W <ul style="list-style-type: none">• 26 x 17 x7 cm (10.2 x 6.7 x 2.8 in)	IOLAN SDG4 W <ul style="list-style-type: none">• 26 x 17 x7 cm (10.2 x 6.7 x 2.8 in)
Shipping weight	IOLAN SDG1/2 W <ul style="list-style-type: none">• 0.55 kg (1.21 lbs)	IOLAN SDG4 W <ul style="list-style-type: none">• 0.71 kg (1.6 lbs)

Regulatory Approvals	
Emissions	<ul style="list-style-type: none"> • FCC Part 15, Subpart B, Class B • CFR47:2003, Chapter 1, Part 15 Subpart B,(USA) Class B • ICES-003, Issue 4, February 2004 (Canada) • EN55022:1998 + A1:2000 + A2:2003 Class A • EN61000-3-2 : 1995, Limits for Harmonic Current Emissions • EN61000-3-3 : 1995, Limits of Voltage Fluctuations and Flicker
Immunity	<ul style="list-style-type: none"> • EN55024:1998 + A1:2001 + A2:2003 • EN61000-4-2: Electrostatic Discharge • EN61000-4-3: RF Electromagnetic Field Modulated • EN61000-4-4: Fast Transients • EN61000-4-5: Surge • EN61000-4-6: RF Continuous Conducted • EN61000-4-8: Power-Frequency Magnetic Field • EN61000-4-11: Voltage Dips and Voltage Interruptions
Safety	<ul style="list-style-type: none"> • UL/EN/IEC 62368-1 • CAN/CSA C22.2 No. 62368-1 • IEC 60950-1 : 2005 (2nd Edition) + A1 : 2009 and • EN 60950-1 : 2006 + A11 : 2009 • CAN/CSA-C22.2 No. 60950-1-03 and ANSI/UL 60950-1, • First Edition April 1st 2003 (Recognized Component)
Wireless Regulatory Domain	<ul style="list-style-type: none"> • FCC/ICES • ETSI • TELEC <p><i>Users are responsible for verifying approval for use in their individual countries.</i></p>
Radio Approvals	<ul style="list-style-type: none"> • FCC Part 15.247 Subpart C (2.4 Ghz) • FCC Part 15.407 Subpart E (5 Ghz) • RSS-210 (Canada), RSS-Gen Issue 2 (Canada), ICES-003 Issue 4 • ETSI EN 301 489-1 (V1.9.2) • ETSI EN 301 489-17 (V2.2.1) • ETSI EN 300 328 (V1.8.1) • ETSI EN 301 893 (V1.7.1)

Frequency Bands	<p><u>FCC / ICES</u></p> <ul style="list-style-type: none"> • 2.412 to 2.462 GHz; 11 channels • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.700 GHz, 8 channels (excluding 5.600 to 5.640 GHz) • 5.745 to 5.825 GHz; 5 channels <p><u>ETSI</u></p> <ul style="list-style-type: none"> • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.700 GHz, 8 channels (excluding 5.600 to 5.640 GHz) <p><u>MIC (formally TELEC)</u></p> <ul style="list-style-type: none"> • 2.412 to 2.472 GHz; 13 channels • 4.920 to 4.980 GHz; 4 channels • 5.030 to 5.091 GHz; 3 channels • 5.180 to 5.240 GHz; 8 channels <p>5.500 to 5.700 GHz; 11 channels</p>
Other	<ul style="list-style-type: none"> • Reach, RoHS and WEEE Compliant • CCATS - G168387 • ECCN - 5A992 • HTSUS Number: 8517.62.0020 • Perle Limited Lifetime Warranty

IOLAN RJ45 Serial Connector Pinout

Pin 1



RJ45 Socket

Pinout	Direction	EIA-232	EIA-422	EIA-485 Full Duplex	EIA-485 Half Duplex
1	in	DCD	N/A	N/A	N/A
2	out	RTS	TxD+	TxD+	TxD+/RxD+
3	in	DSR	N/A	N/A	N/A
4	out	TxD	TxD-	TxD-	TxD-/RxD-
5	in	RxD	RxD+	RxD+	N/A
6	N/A	GND	GND	GND	GND
7	in	CTS	RxD-	RxD-	N/A
8	out	DTR	N/A	N/A	N/A

Optional Perle adapters for use with straight thru CAT5 cabling

IOLAN DB9M Serial Connector Pinout



DB9M Socket

Pinout	Direction	EIA-232	EIA-422 Full Duplex	EIA-485 Full Duplex	EIA-485 Half Duplex
1	in	DCD	N/A	N/A	N/A
2	in	RxD	RxD+	RxD+	N/A
3	out	TxD	TxD-	TxD-	TxD-/RxD-
4	out	DTR	N/A	N/A	N/A
5	N/A	GND	GND	GND	GND
6	in	DSR	N/A	N/A	N/A
7	out	RTS	TxD+	TxD+	TxD+/RxD+
8	in	CTS	RxD-	RxD-	N/A
9	N/A	N/A	N/A	N/A	N/A

Product List



IOLAN SDG1 W Device Server: Wireless LAN (WiFi) client IEEE 802.11 a, b, g, n @ 2.4Ghz/5Ghz, **1 x DB9M connector** with software selectable RS232/422/485 interface, 10/100/1000 Ethernet, advanced data encryption, user authentication and event management security features included, IPv6, COM port redirector, 15kv ESD

Power Cord & Part Number(s)

UK	EU	USA	SA	AUS	None
04031661	04031662	04031664	04031665	04031666	04031668



IOLAN SDG2 W Device Server: Wireless LAN (WiFi) client IEEE 802.11 a, b, g, n @ 2.4Ghz/5Ghz, **2 x DB9M connectors** with software selectable RS232/422/485 interface, 10/100/1000 Ethernet, advanced data encryption, user authentication and event management security features included, IPv6, COM port redirector, 15kv ESD

Power Cord & Part Number(s)

UK	EU	USA	SA	AUS	None
04031671	04031672	04031674	04031675	04031676	04031678



IOLAN SDG4 W Device Server: Wireless LAN (WiFi) client IEEE 802.11 a, b, g, n @ 2.4Ghz/5Ghz, **4 x RJ45 connectors** with software selectable RS232/422/485 interface, 10/100/1000 Ethernet, advanced data encryption, user authentication and event management security features included, IPv6, COM port redirector, 15kv ESD

Power Cord & Part Number(s)

UK	EU	USA	SA	AUS	None
04031681	04031682	04031684	04031685	04031686	04031688

Related Accessories

Cable Accessories

Please click here to see what adapters you may need



NO IMAGE
AVAILABLE

Cvtr-PC DB25 Prl
- RJ45-DB25
converter for
IOLAN to PC
DB25 Female.

04006930



NO IMAGE
AVAILABLE

Cvtr-PC DB9 Prl -
RJ45-DB9
converter for
IOLAN to PC DB9
Female.

04006931



NO IMAGE
AVAILABLE

Cvtr-Print DB25
Prl - RJ45-DB25
converter for
IOLAN to Printer
DB25 Male.

04006933



DBA0010 - RJ-45F
to DB-25F
crossover (DTE)
adapter #1100220-
10 for console port.

04006950



DBA0011 - RJ-45F
to DB-25M
crossover (DTE)
adapter #1100230-
10 for console

04006960



DBA0020 - RJ-45F to DB-9F crossover (DTE) adapter #1100240-10 for console

04006970



DBA0021 - RJ-45F to DB-9M crossover (DTE) adapter #1100250-10 for console

04006980



DBA0013 - RJ-45F to DB-25M straight-thru (DCE) adapter #1100260-10 for modems.

04006990



DBA0023 - RJ-45F to DB-9M straight-thru (DCE) adapter #1100340-10 for modems.

04007200



3m Cbl-Sun/Cisco Pri - RJ45-RJ45 IOLAN DS to Sun/Cisco 3m Cable

04030070



DBA0031 - IOLAN - RJ45M to RJ45F Sun/Cisco crossover adapter #1100219-10.

04030080



DBA0031 8pck - 8 pack of #04030080 IOLAN-RJ45M to RJ45F Sun/Cisco crossover adapter.

04031230



DBA0010 8pck - 8 pack of #04006950 IOLAN-RJ45F to DB25F (DTE) crossover adapter.

04031240



DBA0011 8pck - 8 pack of #04006960 IOLAN-RJ45F to DB25M (DTE) crossover adapter.

04031250



DBA0020 8pck - 8 pack of #04006970 IOLAN-RJ45F to DB9F (DTE)

04031260

Cable Accessories

Please click here to see what adapters you may need



IOLAN Starter Kit (8-wire): 1x RJ-45 to DB-25 DTE Male adapter, 1x RJ-45 to DB-25 DCE Male adapter, 1x RJ-45 to DB-25 DTE Female adapter, 1x RJ-45 to DB-9 Male DTE adapter, 1x RJ-45 to DB-9 Female DTE adapter and 1x RJ45M-RJ45F Sun/Cisco crossover adapter

04007000

Power Supplies



NO IMAGE
AVAILABLE

Extended
Temperature UK
power adapter for
12 volt Extended
Temperature

04030671



NO IMAGE
AVAILABLE

Extended
Temperature EU
power adapter for
12 volt Extended
Temperature

04030672



NO IMAGE
AVAILABLE

Extended
Temperature USA
power adapter for
12 volt Extended
Temperature

04030674



NO IMAGE
AVAILABLE

Extended
Temperature SA
power adapter for
12 volt Extended
Temperature

04030675



NO IMAGE
AVAILABLE

Extended
Temperature AUS
power adapter for
12 volt Extended
Temperature

04030676

Accessories



NO IMAGE
AVAILABLE

DIN Rail Clip designed to be used with the IOLAN SDG W and SDG L Device Servers

04031690

Maintenance agreements - Console Server / Device Server / Terminal Server



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

SERNSS01



2 Port Terminal
Device/Console Server -
Express Replacement 1
Year Maintenance
Contract

SERNSS02



2 Port Terminal
Device/Console Server -
Express Replacement 1
Year Maintenance
Contract, French

SERNSS02F



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

SERNSS04



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

SERNSS04F