Introduction

This guide covers the basic installation and configuration of your IOLAN. It is intended for systems administrators.

The following are needed to setup the IOLAN.

1. Verify that you have all the required parts
2. Setup the hardware
3. Power on the IOLAN
4. Configure the IOLAN

For detailed information, please refer to the IOLAN User's Guide for your model.

Components

What's In the Box

- The IOLAN
- External power supply*
- A Quick Start Guide (this document)
- Warranty Card
- RJ45 - DB9 adapter (RJ45 models only)
- A CD-ROM containing documentation and firmware required to configure and operate the IOLAN

*Not included when purchasing bulk package, Power over Ethernet, I/O, and terminal block models.

What You Need to Supply

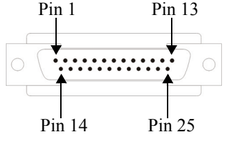
- Serial cable(s) to connect your serial devices to the IOLAN
- An Ethernet 10/100BASE-T cable to connect the IOLAN to the network

Hardware Setup

Connecting Serial Devices

Please refer to the pin-out table for your model, and ensure you have the appropriate cable for connecting your serial device to a serial port on the IOLAN.

DB25M Connector

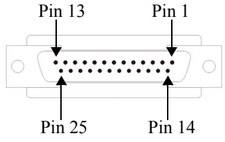


:

Pinout	EIA-232	EIA-422	EIA-485 Full Duplex	EIA-485 Half Duplex
1	Shield	Shield	Shield	Shield
2 (out)	TxD			
3 (in)	RxD			
4 (out)	RTS			
5 (in)	CTS			
6 (in)	DSR			
7	GND	GND	GND	GND
8 (in)	DCD			
9	Power out	Power out	Power out	Power out
12	Power in	Power in	Power in	Power in
13		CTS-		
14		TxD+	TxD+	DATA+
15		TxD-	TxD-	DATA-
18		RTS+		
19		RTS-		
20 (out)	DTR			
21		RxD+	RxD+	
22		RxD-	RxD-	
25		CTS+		

The Power In pin, pin 12, can be 9-30V DC.
The Power Out pin, pin 9, is only available on SDS models.

DB25F Connector

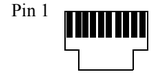


:

Pinout	EIA-232	EIA-422	EIA-485 Full Duplex	EIA-485 Half Duplex
1	Shield	Shield	Shield	Shield
2 (in)	RxD			
3 (out)	TxD			
4 (in)	CTS			
5 (out)	RTS			
6 (out)	DTR			
7	GND	GND	GND	GND
8 (in)	DCD			
9	Power out	Power out	Power out	Power out
12	Power in	Power in	Power in	Power in
13		RTS-		
14		RxD+	RxD+	
15		RxD-	RxD-	
18		CTS+		
19		CTS-		
20 (in)	DSR			
21		TxD+	TxD+	DATA+
22		TxD-	TxD-	DATA-
25		RTS+		

The Power In pin, pin 12, can be 9-30V DC.
The Power Out pin, pin 9, is only available on SDS models.

RJ45 Connector

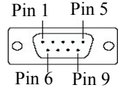


.

Pinout	EIA-232	EIA-422	EIA-485 Full Duplex	EIA-485 Half Duplex
1	Power In	Power In	Power In	Power In
2 (in)	DCD			
3 (out)	RTS	TxD+	TxD+	TxD+/RxD+
4 (in)	DSR			
5 (out)	TxD	TxD-	TxD-	TxD-/RxD-
6 (in)	RxD	RxD+	RxD+	
7	GND	GND	GND	GND
8 (in)	CTS	RxD-	RxD-	
9 (out)	DTR			
10	Power Out	Power Out	Power Out	Power Out

The Power In pin, pin 1, can be 9-30V DC.
The Power Out pin, pin 10, is only available on SDS models.

DB9 connector



The following table is for a 9-pin DB9 male connector.

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

Connecting the LAN

- Connect the IOLAN to the HUB or Switch that will provide the network connectivity.

Setting the Dip Switch

- The dip switch on the IOLAN is set in the factory to serial. Unless you plan to attach a console to the IOLAN, leave the dip switch in the serial position.

Connecting the Power

Models with a barrel connector

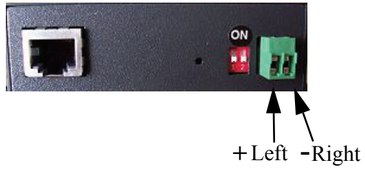
- Plug the power adapter into a power socket and connect the barrel connector end into the unit. A solid green LED indicates the unit is powered up.

Models with a terminal block

1. Ensure power is NOT applied to the wires prior to connection

For I/O models the Terminal Block is pluggable.

2. On each end wire, remove the insulation from the copper wire 5 mm (3/16 of an inch).
3. Loosen the left screw on the top of the terminal connector block, then insert your positive (+) wire into the left terminal and screw it down tight. Loosen the right screw on the top of the terminal connector block, then insert your negative (-) wire into the right terminal and screw it down tight.



4. Plug the power supply into the electrical outlet.
5. A solid green LED indicates the unit is powered up.

Input Voltage Range (9-30v DC)

Power Consumption @ 12v DC (2.4 Watts).

Powering On Cycle

When the power is connected to the IOLAN, the Power/Ready LED will cycle through several sequences and will end in a solid green once the unit is fully booted and ready to be configured.
If the LED is not solid green after two minutes, refer to the User's Guide for help identifying the reason.

LED Guide

Power/Ready—(Green/Yellow/Red)

- **Green**—
  - Solid = System Ready
  - Flashing = System is booting or dip switch is in console mode
- **Yellow**—
  - Flashing = Booting
- **Red**—Error condition (refer to the User's Guide for details)

Link/10/100

- **Green**—10 Mbits
- **Yellow**—100 Mbits
- **Off**—No LAN connection

Activity—Flashes for LAN RX/TX activity
Tx—Flashes with transmit serial activity
Rx—Flashes with receive serial activity

Configuring the Unit

The CD_ROM provided with your IOLAN includes software for configuring the unit. This software is designed for use on a Windows Operating System. For other Operating Systems, please refer to the IOLAN User's Guide for methods of configuring the IOLAN.

1. Insert the CD-ROM into the PC.
   It should launch automatically. If it does not launch, open Windows Explorer and point to the CD-ROM Drive. Double click on the index file to launch the main page.

2. From the main page, select the Easy Config Wizard to launch the configuration wizard or alternatively, install the DeviceManager software and use it to configure the IOLAN.

Default admin Password

You will be prompted by the software for the **admin** user password before being allowed to configure the IOLAN.

The factory default password for the admin user is:

`superuser` `(case sensitive)`

You should change the admin password to restrict unauthorized access to the IOLAN.

For additional methods of configuring your IOLAN (i.e., HTTP, Telnet, SNMP), please refer to the IOLAN User's Guide.

Registering the IOLAN

You should register IOLAN online at:

http://www.perle.com/support_services/warranty_reg.asp

Perle offers free technical support to Perle Authorised Distributors and Registered Perle Resellers.

To access technical support, please visit the Perle website at www.perle.com/support.

Here you will find:

- *latest drivers and firmware updates for download*
- *technical tips*
- *frequently asked questions*
- *documentation*
- *configuration support*
- *cabling information*
- *maintenance contract information*
- *and much more...*

If you are unable to find the information you require, please feel free to contact our technical support teams by email at:

USA
Email: ptac@perle.com
Europe
Email: ptacemea@perle.com
Asia
Email: ptacasia@perle.com
Internet
www.perle.com/support_services

IOLAN
1-Port Quick Start Guide
Part No: 5500160-19

IOLAN 1-Port

Quick Start Guide

- Advanced serial to Ethernet connectivity
- Universal, software selectable EIA-232/422/485 interface
- 15 KV ESD protection
- Next Generation IP support (IPV6)