

Introduction

This guide covers the basic installation and configuration of an IP address for the IOLAN Device Server. It is intended for systems administrators familiar with UNIX and/or Windows 98/NT/ME/2000/2003/XP operating systems, and Ethernet TCP/IP networks.

For more information, refer to the *IOLAN DS Family User's Guide* for your Device Server model.

Components

What's Included

- The Device Server
- Power cable (AC models only)
- A Quick Start Guide
- Warranty Card
- Administration cable (consisting of an RJ45-->DB9F adapter and a 3' RJ45 cable)
- Rack mounting kit
- A CD-ROM containing documentation, firmware, DeviceManager, etc.

What You Need to Supply

Before you can begin, you need to have the following:

- An ethernet 10/100/1000BASE-T cable if you are connecting the Device Server to the network

Default admin Password

The first time you try to login to the Device Server, use the following values:

User: **admin**
Password: **superuser**.

You should change the admin password to restrict unauthorized access to the Device Server.

Powering On the Device Server

Before you attach the Device Server to your network or try to configure it, we suggest that you power it up to verify that it works properly by doing the following:

1. Connect the Device Server to a power source and flip the Power switch to ON. If you have dual AC or DC, you can power the Device Server with either or both power sources connected.
2. If the Device Server is working correctly, the Power/Ready LED will cycle through several LED sequences and then end in solid green, indicating that it is ready to configure.

If this test works correctly, you are now ready to begin communicating with your IOLAN Device Server. The last step of the quick installation process is to set an IP address for the Device Server; this is necessary before it can be configured and put into production.

LED Guide

The Device Server LEDs display the following information:

- **Power/Ready**—(Green/Red/Yellow) A successful boot cycles for several seconds and then ends in a solid green LED. If you the LED flashes red during the boot, connect to the Device Server's Console port and reboot the Device Server to and view the log. If the Power/Ready LED continues to flash red or stays red, see the *LED Guide* section in the *User's Guide*.
- **Link 10/100/1000**
 - **Green**—10 or 100 Mbits
 - **Yellow**—1 Gbit
 - **Off**—no LAN connection
- **Activity**—Flashes Green for TX or RX data
- **Tx**—Flashes with transmit serial activity
- **Rx**—Flashes with receive serial activity

Configuring the Device Server

There are several different methods that can be used to configure the Device Server. The Easy Config Wizard configuration method is described in this section; see the *IOLAN DS Family User's Guide* (included on the CD-ROM) for other configuration methods for your Device Server model.

Easy Config Wizard

When you insert the CD-ROM into your Windows-based computer, the Easy Config Wizard will launch automatically. You can use the Easy Config Wizard to assign an IP address and configure your Device Server's lines for any of the following:

- Printers
- Raw TCP (Dir Raw)
- Terminal Management (Dir Telnet)
- Console Management (Rev Telnet)
- Secure Console Management (Rev SSH)

If you want to configure the Device Server for another purpose, install and run the DeviceManager, a complete configuration/management application.

What's Next

Now that you have assigned the Device Server an IP address, you are ready to configure the server, lines, users, etc., for your production environment. You can configure the Device Server using any of the following methods:

- DeviceManager, a Windows-based configuration/management application.
- Menu, a windows-like configuration application.
- CLI, a command line interface configuration/management application.
- WebManager, a web browser configuration/management application.
- SNMP, configure/manage the Device Server.
- BOOTP/DHCP, specify configuration information.
- Easy Config Wizard, allows you to configure all the Device Server's lines at once for printing, raw TCP, terminal management, console management, or secure console management.

About the DeviceManager

The DeviceManager is our flagship configuration application (it can be installed from the CD-ROM) that can be used to assign an IP address to a new Device Server, configure Device Server parameters, view Device Server statistics, and manage a Device Server.

Using IOLAN+ Mode

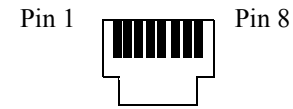
If you are an existing IOLAN+ user and want to configure the SDS/SCS/STS model Device Server (excluding the STS 24-port model and the SCS 32-port and 48-port models) using the IOLAN+ interface, type **iolan+** at the CLI command prompt. See the *User's Guide* for more information on this option.

Registering the Device Server

You should register Device Server online at:

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

RJ45 8-Pin Pinouts



The following table is for a 8-pin RJ45 connector (the SCS and STS models support only the EIA-232 interface).

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

RJ45 EIA-232 Null Modem Cable

The following diagram shows how the null modem cable should be configured when connecting the RJ45 port to a DB25.

IOLAN DS RJ45	PC DB25
3 (DSR)	20 (DTR)
2 (RTS)	5 (CTS)
4 (TxD)	3 (RxD)
5 (RxD)	2 (TxD)
6 (GND)	7 (GND)
7 (CTS)	4 (RTS)
8 (DTR)	6 (DSR)

The following diagram shows how the null modem cable should be configured when connecting the RJ45 port to a DB9.

IOLAN DS RJ45	PC DB9
3 (DSR)	4 (DTR)
2 (RTS)	8 (CTS)
4 (TxD)	2 (RxD)
5 (RxD)	3 (TxD)
6 (GND)	5 (GND)
7 (CTS)	7 (RTS)
8 (DTR)	6 (DSR)

RJ45 Sun/Cisco Cable

The following diagram shows how the IOLAN DS RJ45 cable is configured when connecting to the supplied Sun/Cisco RJ45 cable.

IOLAN DS RJ45	Sun/Cisco RJ45
2 (RTS)	8 (CTS)
3 (DSR)	2 (DTR)
4 (TxD)	6 (RxD)
5 (RxD)	3 (TxD)
6 (GND)	4 (GND)
7 (CTS)	1 (RTS)
8 (DTR)	7 (DSR)



IOLAN DS Family

Rack Mount

Quick Start Guide



<p>Perle offers free technical support to Perle Authorised Distributors and Registered Perle Resellers.</p> <p>To access technical support, please visit the Perle website at www.perle.com/support.</p> <p>Here you will find:</p> <ul style="list-style-type: none"> • latest drivers and firmware updates for download • technical tips • frequently asked questions • documentation • configuration support • cabling information • maintenance contract information • and much more... <p>If you are unable to find the information you require, please feel free to contact our technical support teams by email at:</p>
USA
<i>Email: ptac@perle.com</i>
Europe
<i>Email: ptacemea@perle.com</i>
Asia
<i>Email: ptacasia@perle.com</i>
Internet
www.perle.com/support_services

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