

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
- External power supply*
- A Quick Start Guide
- Warranty Card
- A CD-ROM containing documentation, firmware, DeviceManager, etc.

*NOTE: If the Device Server was purchased in bulk, you have to provide the power supply.

What You Need to Supply

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

- A serial cable
- An ethernet 10/100BASE-T cable if you are connecting the Device Server to the network or are powering a P series model (power over ethernet) through ethernet

Power Supply Requirements

If you are providing a power supply for the Device Server, your power supply must meet the following requirements:

- Output between 9-30V DC.
- The barrel dimensions of the cable-plug are OD=5.5, ID=2.1, and length= 9.5mm, with a straight barrel.
- Power can also be provided by Serial Port 2, pin 1, in the 2-port model; Serial Port 4, pin 1, in the 4-port model; or by ethernet in the P series model (power over ethernet model).

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. To power up the Device Server, perform the following steps:

1. Plug the external power supply into the Device Server and then into the electrical outlet.
 - If you have the Power over Ethernet model and want to power the Device Server through the ethernet cable, attach the ethernet cable to the Device Server and the Power Source Equipment (PSE).
2. If the Device Server is working correctly, you should see:
 - a. The Power/Ready LED starts out red
 - b. The Power/Ready LED flashes green while the Device Server boots up
 - c. The Power/Ready LED stays solid green, indicating that it is ready to configure/use

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) Shows red at power up. If the LED remains red, there is a critical error (see the *Troubleshooting* chapter of the *User's Guide* for information on what to do if this happens). Next, the LED should flash green to indicate that the Device Server is booting. Lastly, the LED should stay a solid green to indicate that the Device Server is ready.
- **Link/10/100**
 - **Green**—10 Mbits
 - **Yellow**—100 Mbits
 - **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.

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.

What's Next

After you assign 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.

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

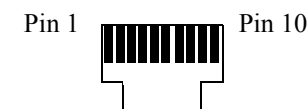
If you are an existing IOLAN+ user and want to configure the SDS/SCS model Device Server using the IOLAN+ interface, type **iolan+** at the CLI command prompt. See the *User's Guide* for more information on this option.

Registering the Device Server

You should register Device Server online at:

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

RJ45 10-Pin Pinouts



The following table is for a 10-pin RJ45 connector. If you are using an 8-pin connector, then map Pin 1 in the 8-pin connector to Pin 2 in the 10-pin connector table (the SCS model supports only the EIA-232 interface).

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

RJ45 Null Modem Cable

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

IOLAN SDS2/4		PC DB25
4 (DSR)	—————	20 (DTR)
3 (RTS)	—————	5 (CTS)
5 (TxD)	—————	3 (RxD)
6 (RxD)	—————	2 (TxD)
7 (GND)	—————	7 (GND)
8 (CTS)	—————	4 (RTS)
9 (DTR)	—————	6 (DSR)

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

IOLAN SDS2/4		PC DB9
4 (DSR)	—————	4 (DTR)
3 (RTS)	—————	8 (CTS)
5 (TxD)	—————	2 (RxD)
6 (RxD)	—————	3 (TxD)
7 (GND)	—————	5 (GND)
8 (CTS)	—————	7 (RTS)
9 (DTR)	—————	6 (DSR)



IOLAN DS Family

2-Port/4-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)

Perle offers free technical support to Perle Authorised Distributors and Registered Perle Resellers.
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Here you will find:
• latest drivers and firmware updates for download
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• configuration support
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