

Introduction

This guide covers the basic installation and configuration of your BLACK BOX® Terminal Server. It is intended for systems administrators.

The following are the steps needed to setup the Terminal Server.

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

For detailed information, please refer to the *User Guide* for your model.

Components

What's In the Box

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

What You Need to Supply

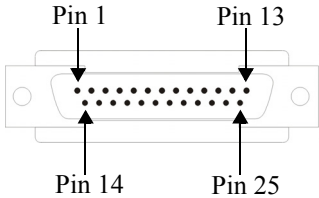
- Serial cable(s) to connect your serial devices to the Terminal Server
- An Ethernet 10/100BASE-T cable to connect the Terminal Server to the network

Hardware Setup

Connecting Serial Devices

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

DB25M Connector

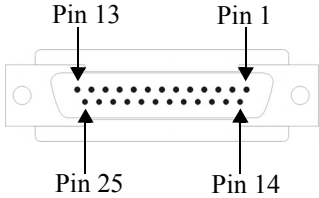


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Pinout	EIA-232	EIA-422	EIA-485 Full Duplex	EIA-485 Half Duplex
1	Shield	Shield	Shield	Shield
2 (out)	TxD			
3 (in)	RxD			
4 (out)	RTS			
5 (in)	CTS			
6 (in)	DSR			
7	GND	GND	GND	GND
8 (in)	DCD			
9	Power out	Power out	Power out	Power out
12	Power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

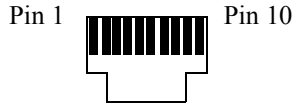
DB25F Connector



Pinout	EIA-232	EIA-422	EIA-485 Full Duplex	EIA-485 Half Duplex
1	Shield	Shield	Shield	Shield
2 (out)	RxD			
3 (in)	TxD			
4 (out)	CTS			
5 (in)	RTS			
6 (in)	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+	DATA+
15		RxD-	RxD-	DATA-
18		CTS+		
19		CTS-		
20 (out)	DSR			
21		TxD+	TxD+	
22		TxD-	TxD-	
25		RTS+		

The power in pin, pin 12, can be 9-30V DC.

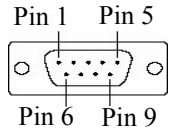
RJ45 Connector



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.

DB9 connector



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

Connecting the LAN

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

Setting the Dip Switch

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

Connecting the Power

- Plug the power adapter into a power socket and connect the barrel connector end into the Terminal Server. The Terminal Server will power up.

Powering On Cycle

When the power is connected to the Terminal Server, 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 Terminal Server 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 User’s Guide for methods of configuring theTerminal Server.

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 Terminal Server.

Default admin Password

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

The factory default password for the admin user is:

superuser (case sensitive)

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

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



BLACK BOX®

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)

BLACK BOX®
Terminal Server/Secure Server
1-Port Quick Start Guide
Part No: 5500179-11
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