



Quick Start Guide

PortServer® TS Family



Welcome to your Digi product

Get started: This guide helps you with initial product setup. Need more? Find additional supporting material for this product at www.digi.com/support/portserverts. Or connect to the online documentation by scanning this code:



Digi Technical Support: Digi offers multiple support plans to help you get the most out of your product. For information on Technical Support plans and pricing, contact us at 877.912.3444 or visit www.digi.com/support.

Documentation feedback: To provide feedback on this documentation, send your comments to techcomm@digi.com.

1 Verify your components

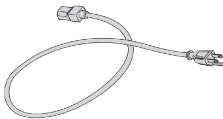
Included equipment



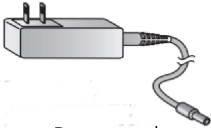
PortServer TS 1/2/4



DB-9 - RJ-45 adapter
(available with some models)



Power cord
(U.S. models only)

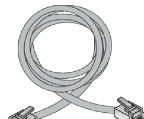


Power supply

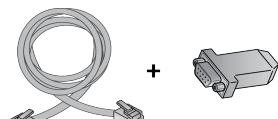


Power Supply Adapters
(non-US models only)

Required equipment



Ethernet cable



Additional serial cables and/or adapters
(See the *Cable Adapter Insert Card*)

2 Confirm serial pinouts

Step 1: Configure DIP switches (MEI models only)

For PortServer TS 1-4 port models, if the connected device is not EIA-232, set the DIP switches as shown for the serial port according to your serial device requirements.

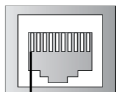
PortServer TS 1-4 port DIP Switch settings:				PortServer TS P MEI DIP switch settings:	
Switch settings	EIA-232	EIA-422/485 Full-Duplex	EIA-485 Half-Duplex	EIA-232 for PortServer TS P MEI	
Up/On					For PortServer TS P MEI series only, in EIA-232 mode, if switch 3 is down, 9V power is provided on pin 9 (DTR). If switch 3 is up, power on pin 9 is disabled and 5V power can be enabled on pin 1 (RI) through the software interface. If using EIA-422 or EIA-485, the DIP switch settings are the same as for any other PortServer TS 1-4 MEI model.
Down/Off					

If switch 4 is up, the termination resistor is connected. If switch 4 is down, the termination resistor is not connected.

Step 2: Review serial pinouts

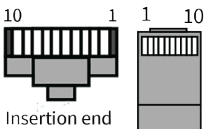
Pin positions for connecting serial devices

PortServer TS products use an RJ-45 10-wire jack (female), with Pin 1 in the following location.

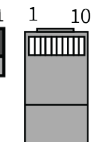


Pin 1

For a 10-wire connector, Pin 1 of the connector is shown here.

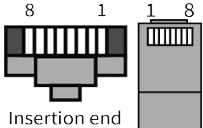


Insertion end

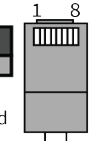


Top view

For an 8-wire connector, connect the pins to the center 8 pins of the 10-wire jack.



Insertion end



Top view

Serial port pin assignments

Pin # on 10-wire connector	Pin # on 8 wire connector	EIA-232	MEI versions only	
			EIA-422/485 Full-Duplex	EIA-485 Half-Duplex
1		RI	TxD-	N/A
2	1	DSR*	RxD-	DATA-
3	2	RTS	RTS+	N/A
4	3	CGND	CGND	CGND
5	4	TxD	TxD+	N/A
6	5	RxD	RxD+	DATA+
7	6	SGND	SGND	SGND
8	7	CTS	CTS+	N/A
9	8	DTR	RTS-	N/A
10		DCD*	CTS-	N/A

*Use the Altpin setting to swap these two signals.

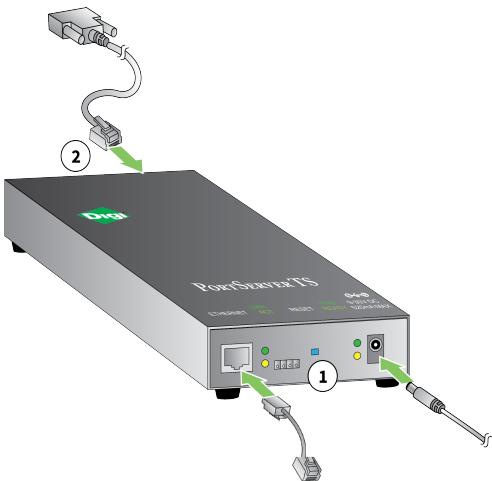
Note The CTS and RTS control signals are available as separate differential signals in the EIA-422/EIA-485 4-wire mode. Do not use these differential signals in 2-wire mode. The CTS and RTS differential signals are not terminated or biased internally. Any termination or biasing must be done externally.

Note For additional information on Digi part numbers for serial cables and adapters, refer to the *Cable Adapter Insert Card*.

3 Connect the hardware

1. Connect the Ethernet cable to the ETHERNET port and the power supply to the POWER connector.
2. Using serial cables/adapters, connect the serial devices to the serial ports, following the pin-position information in the Serial port pin assignments table.

Note On products with wiring supply terminals, tighten connectors to 2.5 inches per pound minimum. Use copper conductors only.



LEDs and startup status: All LEDs flash on startup.

- **Power LED:**
Off: No power.
Steady blinking: Waiting for IP address to be assigned.
- **Link LED:** Illuminates when a physical network is detected.
- **10/100 LED:**
Off: Detected a 10-megabit Ethernet network.
On: Detected a 100-megabit Ethernet network.
- **ACT LED:**
Off: Detected a 10-megabit Ethernet network.
On: Detected a 100-megabit Ethernet network.
- **COL LED:** Illuminates when an Ethernet collision is detected.

4 Download required software

Digi provides several utilities that discover devices present on a network. You will need to download either the **Device Discovery Utility** or **Digi Port Authority - Remote**.

1. Navigate to: www.digi.com/support/portserververts and click the **Utilities** tab.
2. Under **Operating System Specific Utilities**, select your operating system. A list of available utilities appears.
3. Download and run either **Device Discovery Utility** or **Digi Port Authority - Remote**.

If you will use Digi's RealPort software to manage the serial ports for your products, download the RealPort software.

1. Navigate to: www.digi.com/support/portserververts and click the **Drivers** tab.
2. Under **Operating System Specific Drivers**, select your operating system. A list of available downloads and release notes appears.
3. Download the RealPort driver and the release notes.

Note For Windows operating systems, unzip the download package and run the executable. For Linux or Unix operating systems, follow instructions in the release notes.

5 Configure the serial ports

1. Navigate to www.digi.com/support/portserververts. Under the **Documentation** tab, open the *PortServer TS Family User Guide*.
2. Use **Digi Discovery Utility** or **Digi Port Authority - Remote** to discover devices on your network and open the web interface:
 - a. In the list of discovered devices, select the PortServer TS device. Configure the IP address, if necessary.
 - b. Open the web interface. In Digi Device Discovery Utility, click **Open web interface**. In Digi Port Authority - Remote, click **Device Configuration**.
 - c. A login prompt for the web interface appears. Enter the default username and password: **root** and **dbps**.
3. In the web interface, under **Configuration**, click **Serial Ports**.
4. Configure serial port settings using port profiles. Port profiles are a defined set of serial port parameters for a particular use. The web interface and user guide contain descriptions of the port profiles. For PortServer TS products, Digi recommends the RealPort port profile. For help in configuring the device for use with other port profiles, see the user guide. To configure ports to use the RealPort port profile:
 - a. On the **Serial Port Configuration** page, click the port to be configured and click **Change Profile**.
 - b. In the list of profiles, select the **RealPort** port profile, then click **Apply**.
5. For EIA-232 devices that will be connected using 8-wire cables, configure the **Altpin** setting. The default for this setting is off; it must be enabled as needed for each serial port. For each applicable serial port, click **Advanced Serial Settings** and select the **Enable DCD on 8-pin RJ45 connectors (Altpin)** setting, then click **Apply**.