



Making  
DEVICE NETWORKING  
easy™

What you will need

# Quick Start Guide

## PortServer®TS Family

PortServer TS 1 MEI (shown)



PortServer TS 16 MEI (shown)

PortServer TS 8  
PortServer TS 16  
PortServer TS MEI  
PortServer TS P MEI  
PortServer TS H MEI

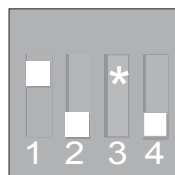
PN:(1P) 90000687 A

- 1 Set serial DIP switch according to your serial device requirements. Pinout information available on back of quick start.

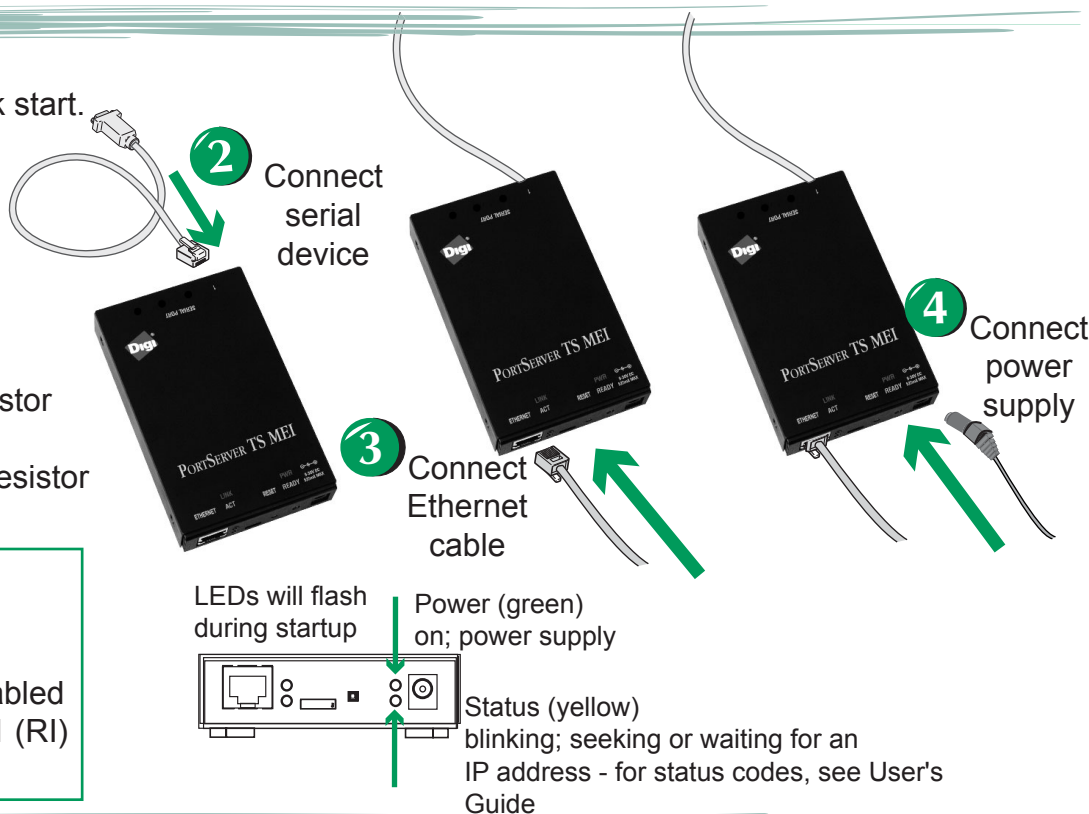
| Switch Settings | EIA-232 | EIA-422/485 Full-Duplex | EIA-485 Half-Duplex |
|-----------------|---------|-------------------------|---------------------|
| Up/On           |         |                         |                     |
| Down/Off        |         |                         |                     |

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

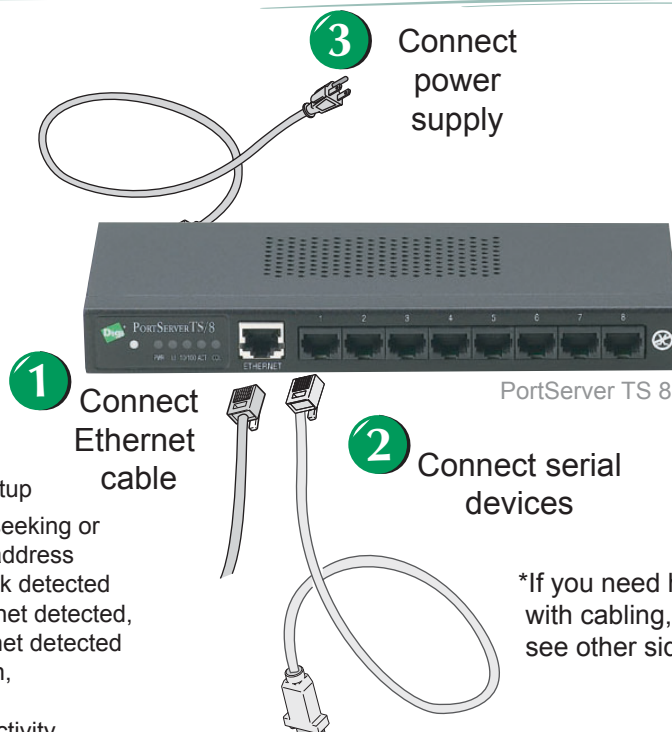
### Note for Power Series Models



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.

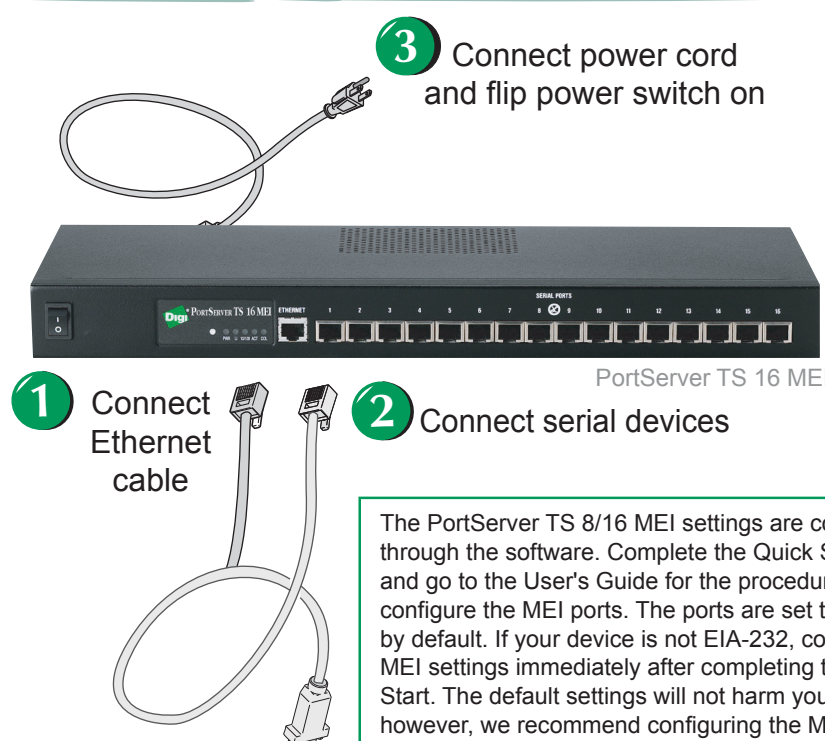


## INSTALL 8 or 16 Port



PortServer TS 8

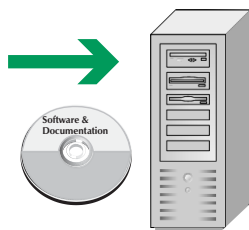
\*If you need help with cabling, see other side



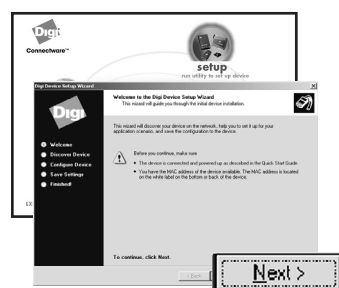
PortServer TS 16 MEI

The PortServer TS 8/16 MEI settings are configured through the software. Complete the Quick Start Guide and go to the User's Guide for the procedure to configure the MEI ports. The ports are set to EIA-232 by default. If your device is not EIA-232, configure the MEI settings immediately after completing the Quick Start. The default settings will not harm your device, however, we recommend configuring the MEI settings immediately as a precaution.

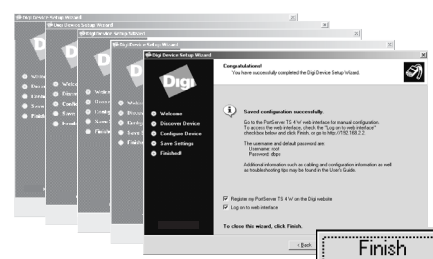
Insert CD



## RUN WIZARD



If you have a UNIX system and it does not use an auto-mounter, you will need to manually mount the CD. See the back of this guide for UNIX specific instructions.

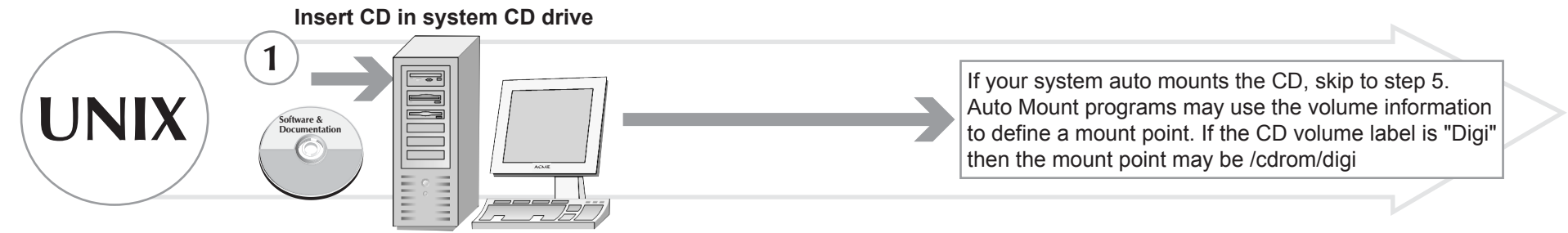


Follow wizard

**Congratulations!**  
Configuration is complete.  
Go to the User's Guide on the CD for more information.

Be sure to check Digi Support for the latest firmware updates at:  
<http://support.digi.com>

# Accessing the CD from a UNIX System



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Determine your CD device

Common names for CD-ROM devices:

| NAME              | EXAMPLE           |
|-------------------|-------------------|
| /dev/cdrom        | /dev/cdrom        |
| /dev/cdrom/cdromn | /dev/cdrom/cdrom1 |
| /dev/cdn          | /dev/cd0          |
| /dev/dsk/cktmdn   | /dev/clt2d0       |

To list descriptions of devices:  
AIX: `lscfg`  
HPUX: - Make sure you have administrator privileges and your PATH includes /usr/sbin  
`ioscan -funC disk`  
Solaris: Most Solaris systems use an auto-mounter.  
See the man page on vold: `man vold`

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Identify the mount-directory.

Some common pre-existing mount points:  
/mnt/cdrom      /cdrom

Or create your own:  
`mkdir /mnt/mycdrom`

HPUX - Check to see if pfs is running  
`ps -ef | grep pfs`

If not, start the daemons:  
`pfs_mountd&; pfsd&`

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Mount the CD by entering one of the commands from the following table:

| Operating System        | Command                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AIX                     | <code>mount -r -v cdrfs device mount-directory</code>                                                                                                                                   |
| *HPUX                   | do not use mount, it will not operate correctly<br><code>pfs_mount device mount-directory</code><br>See man pages for <code>pfs</code> and <code>pfs_mount</code> for more information. |
| Linux                   | <code>mount device mount-directory</code>                                                                                                                                               |
| SCO UnixWare            | <code>mount -r -F cdfs device mount-directory</code>                                                                                                                                    |
| SCO OpenServer          | <code>mount -r -f ISO9660 device mount-directory</code>                                                                                                                                 |
| Solaris (Intel & SPARC) | <code>mount -F hsfs device mount-directory</code><br>Most systems use an auto-mounter. See the man page on vold: <code>man vold</code>                                                  |

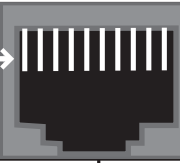
*device* is the path to the device file assigned to the cdrom drive,  
*mount-directory* is the directory where the Digi CD is mounted  
  
\*HPUX When finished, leave the CD directory and `pfs_umount cd`  
`pfs_umount mount-directory`  
(If you inadvertently use `umount` instead of `pfs_umount`, kill the `pfs` daemons to remove the CD-ROM.)

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Navigate to mounted CD directory, enter: `./setup`

If you see DISPLAY permission errors when running the CD, you may want to verify your DISPLAY variable is set. To set the DISPLAY variable:  
`DISPLAY=localhost:0.0; export DISPLAY`  
AND/OR  
`xhost +localhost`

## Pinouts

| <div><div>Pin 1</div></div> |         |                         |                     | PortServer TS 8/16 ONLY             |
|------------------------------------------------------------------------------------------------------------------|---------|-------------------------|---------------------|-------------------------------------|
| RJ-45 Pin                                                                                                        | EIA-232 | EIA-422/485 Full-Duplex | EIA-485 Half-Duplex | Optional 8-pin EIA-422 (Alt-4 Wire) |
| 1                                                                                                                | RI      | TXD-                    | TXD-                |                                     |
| 2                                                                                                                | DSR     | RxD-                    | RxD-                | RxD- (B)                            |
| 3                                                                                                                | RTS     | RTS+                    | n/a                 | TxD+ (A)                            |
| 4                                                                                                                | GND     | GND                     | GND                 | CGND                                |
| 5                                                                                                                | TxD     | TxD+                    | TxD+                | no connection                       |
| 6                                                                                                                | RxD     | RxD+                    | RxD+                | RxD+ (A)                            |
| 7                                                                                                                | SG      | SG                      | SG                  | SGND                                |
| 8                                                                                                                | CTS     | CTS+                    | n/a                 | no connection                       |
| 9                                                                                                                | DTR     | RTS-                    | n/a                 | TxD- (B)                            |
| 10                                                                                                               | DCD     | CTS-                    | n/a                 |                                     |

## Need help with cabling?

## Digi TS EIA-232 Cable Adapter Reference

Cabling your serial devices to a Digi Product is now simpler than ever with a Digi Cable Adapter. While many custom cabling solutions can leave you with a cable that is either too long or too short for your application, the Digi Cable Adapters are used with commercially available CAT 5 cable of any length. Simply plug standard CAT 5 cable into your Digi Product, connect a Cable Adapter to the other end and plug the adapter into your device. Whether you need a crossover or straight-through connection, or require a DB-9 or DB-25 connector, there is a Digi Cable Adapter solution. For additional cabling information, see the Cabling guide under Documentation on your CD. If you prefer to order cables, see our website at <http://support.digi.com> and select Cabling.

| Part number | Adapter                                          | Application                                                                                                                                      |
|-------------|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 76000697    | Digi TS DB-9F Console Adapter (4-pack)           | Bay Accelar, Nortel and other DB-9 DTE devices                                                                                                   |
| 76000698    | Digi TS DB-25M Console Adapter (4-pack)          | Sun Sparc, Sun Ultra, terminals, printers and other DTE devices with DB-25 Female ports                                                          |
| 76000699    | Digi TS DB-25F Console Adapter (4-pack)          | Cisco, IBM and other DTE devices with DB-25 Male ports                                                                                           |
| 76000700    | Digi TS DB-25M Modem Adapter (4-pack)            | Modems and other DCE devices with DB-25 Female Ports                                                                                             |
| 76000701    | Digi TS DB-9M Modem Adapter (4-pack)             | Modems and other DCE devices with DB-9 Female Ports                                                                                              |
| 76000692    | Digi TS DB-25M Printer Adapter (4-pack)          | For use with Printers. This adapter differs from a Console Adapter in that it utilizes the DTR signal (instead of RTS) for hardware flow control |
| 76000631    | Digi TS to Sun Netra / Cisco Cable (single pack) | For use with Cisco and Sun RJ-45 Console ports. Also available in 8-pack and 16-pack quantities.                                                 |
| 63000042-01 | RJ-45 to RJ-45 Straight Through Ethernet Cable   | Can be used as a networking cable or combined with one of the adapters as a serial cable.                                                        |

All RJ-45 cables and connectors are 8-pin. When using these adapters with modems or other applications that require DCD on pin 1, you must turn on altpin. If altpin is turned off, the hardware signal on pin 1 becomes DSR instead of DCD. This alternative can be used if DCD is not required, and DSR is needed instead. Configure the altpin through the web interface or the command line. See the User's Guide, MEI chapter or the set flow command in the Command Reference on the Digi CD under Documentation for more information about setting the altpin.