

Pin Assignments

DB-25 and DB-9 Pin Assignments

Signal	Description	DB-25 Pin #	DB-9 Pin #
GND	Chassis Ground	Shell	Shell
TxD	Transmitted Data	2	3
RxD	Received Data	3	2
RTS	Request To Send	4	7
CTS	Clear To Send	5	8
DSR	Data Set Ready	6	6
SG	Signal Ground	7	5
DCD	Data Carrier Detect	8	1
DTR	Data Terminal Ready	20	4
RI	Ring Indicator	22	9

RJ-45 Pin Assignments for 10-Pin and 8-Pin RJ-45 Connectors

Signal	Description	Pin # (of 10)	Pin # (of 8)
RI	Ring Indicator	1	N/A
DSR	Data Set Ready	2†	1†
RTS	Request To Send	3	2
GND	Chassis Ground	4	3
TxD	Transmitted Data	5	4
RxD	Received Data	6	5
SG	Signal Ground	7	6
CTS	Clear To Send	8	7
DTR	Data Terminal Ready	9	8
DCD	Data Carrier Detect	10	N/A

† DSR (Pin 2 on a 10 pin connector, Pin 1 on an 8 pin connector) can be swapped with DCD. This reverses the position of these two signals in 10 pin or allows DCD to be used instead of DSR on an 8 pin connector.

Consult the driver documentation for how to do this in your specific operating system.

Refer to the Digi CD-ROM or visit <http://support.digi.com> for more detailed cabling information.

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Connectware™

AccelePort Xp Family:
2p, 4p, 8p, 16p

PCI Host Adapters
EIA-232

Adapter Installation Instructions

Introduction

An AccelePort® Xp™ Universal PCI (3.3V / 5V) host adapter easily expands the number of EIA-232 ports available on your computer, allowing you to cable additional peripheral devices, such as modems, terminals or serial printers, directly to your computer.

The 2p adapter has two male DB-9 connectors, each providing an EIA-232 peripheral port connection.

The AccelePort 4p RJ45 adapter provides four RJ45 connectors for multiple EIA-232 serial devices.

The 4p and 8p adapters have one HD-68 connector to which a special Digi connector assembly is attached to provide the peripheral port connections. There are seven different connector assembly options available from Digi to use with 4p and 8p adapters:

- RJ-45 Connector Box
- DB-25 Connector Box (male connectors)
- DB-9 Connector Box (male connectors)
- DB-25 Fan-out Cable (male or female connectors)
- DB-9 Fan-out Cable (male or female connectors)

The 16p adapter has two HD-68 connectors and accommodates two of the above assemblies (in any combination), or a 16-port rack-mountable connector box configurable with either DB-25 or RJ-45 connectors.

This installation guide describes how to plan your setup and install an AccelePort Xp host adapter.

Step One: Plan Your Setup

An AccelePort Xp adapter can be set up in a variety of ways. Before you start your installation, consider the following:

Number of Components. You can connect up to two peripherals on an AccelePort 2p, four peripherals to an AccelePort 4p and 4p RJ45, eight peripherals to an AccelePort 8p, and sixteen peripherals to an AccelePort 16p adapter. Up to four AccelePort Xp adapters may be installed in a computer.

Construction of Cables. To achieve the greatest reliability over distance, cables should be:

- Shielded, low capacitance, and preferably designed specifically for serial data transmission.
- Grounded at both ends of the cable.
- Routed away from noise sources such as generators, motors and fluorescent lights.

Cable Connections. Before beginning the installation, verify that you have the appropriate Digi connector assemblies (fan-out cables or connector box assemblies). Fan-out cables are complete in themselves; connector boxes require an interconnect cable between the box and the adapter (two cables for sixteen-port models).

You will also need a cable for each peripheral that you will be attaching to the connector assembly. The connector type that you need at either end of the peripheral cable depends on the type of Digi connector assembly that you use and the connector on the peripheral.

Digi connector assemblies are available with RJ-45, DB-25 or DB-9 connectors. You will need to be sure that you have cables of the correct length and with the right connectors to properly attach the devices you want to use.

Additional information about the AccelePort Xp, such as specifications and cabling details, is provided on the CD-ROM that is packaged with the adapter.

PCI Slot Specification:

AccelePort Xp functions in

- **3.3V or 5V slots**
- **32 or 64 bit slots**
- **Standard or low profile* slots**

*4 or 8 Port only - see figure 1.

Step Two: Install the Xp PCI Host Adapter

CAUTION! To guard against damage to the AccelePort adapter due to electrostatic discharge (ESD), do not remove the adapter from its protective packaging until you have grounded yourself to the computer chassis (see step 3, below).

1. Unplug power from the computer.
2. Remove the computer's cover.
3. Touch the computer chassis to equalize any static potential between yourself and the computer. This will help prevent damage to the adapter due to electrostatic discharge.
4. Locate an available PCI slot in your computer and remove the slot plate.
5. Remove the Xp adapter from its protective packaging.
6. Write down the serial number of the adapter in the space provided below.
7. Insert the adapter into the slot and screw the endplate to the computer chassis. The endplate must be screwed into the computer chassis to remain in compliance with Part 15 of FCC rules.
8. Replace the computer's cover.
9. Attach the peripheral interconnect cable(s) to the adapter (see Figure 1 for connector positions):

AccelePort 2p AccelePort 4p RJ45	Attach peripherals directly to the connectors on the endplate.
AccelePort 4p and 8p	Attach a fan-out or connector box, using the cable included with the connector box.
AccelePort 16p	Attach a 16-port connector box, using two interconnect cables, or attach two 8-port connector assemblies.

CAUTION: Many SCSI adapters use the same HD-68 connector type as the AccelePort Xp. Do not plug SCSI devices into the Digi connector, and do not plug Digi peripheral cables into SCSI adapters.

Serial Number: _____

Step Three: Install Peripheral Cabling

You can connect modems, terminals, serial printers, or any other standard EIA-232 device to an AccelePort Xp host adapter using a cable between the peripheral and the Digi connector assembly (or the adapter itself, in the case of the AccelePort 2p or 4p RJ45).

On the peripheral end of the cable, the connector you must have depends on the requirements of the peripheral. The Digi end of the cable must be equipped with the connector type that mates with the connectors on the Digi connector assembly (or the connectors on the 2p or 4p RJ45 endplate).

Figure 1.

