



AccelePort Xem System

*PORTS/8em and
PORTS/16em
Modules*

Hardware Information

Introduction

AccelePort® PORTS/8em™ and PORTS/16em™ modules work with any Digi adapter or concentrator that employs Digi's EBI (External Bus Interface) bus. This includes the following Digi products:

- AccelePort Xem™ adapters (EBI bus is available directly from the adapter to EBI bus modules like PORTS/Xem™ or Modem/Xem™)
- Modem/Xem modules or other PORTS/Xem modules (the EBI bus is used between modules)
- EPC/CON-16™ concentrators (the EBI bus is available on each concentrator)
- PortServer II™ terminal servers (the EBI bus is available on each terminal server)

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Figure 30. Three PORTS/16em modules cabled together

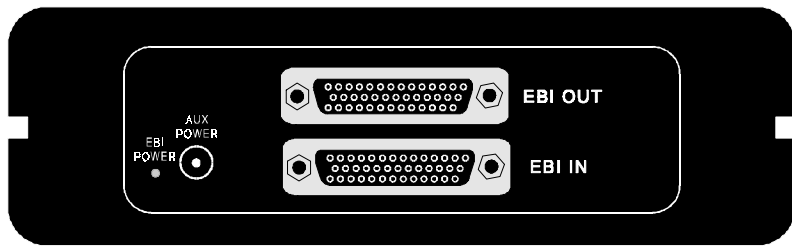


Figure 31. PORTS/Xem left panel

Installation Guidelines

There are just a few things to remember as you install a PORTS/8em or PORTS/16em module:

Number of modules

Several PORTS/Xem modules can be cabled to one EBI bus. The EBI bus available on EPC/CON-16 concentrators and PortServer II terminal servers supports three PORTS/Xem modules. Xem host adapters support four modules.

EBI cabling

To cable a PORTS/Xem module to the EBI bus, the EBI cable (from an Xem adapter, from an EPC/CON-16 concentrator, or from another PORTS/Xem or Modem/Xem module) is attached to the EBI IN connector. Use the EBI OUT connector to attach an EBI cable to the next module in the stack.

Note: You must use the daisy-chain cables that come with the PORTS/Xem module; the cables cannot be extended.

When attaching or removing EBI cables to/from the PORTS/Xem modules, host system power must be OFF, and any auxiliary power connection to the module removed, to prevent damage to the modules.

Power

PORTS/Xem modules can obtain power from the EBI bus. The EBI bus on EPC/CON-16 concentrators and PortServer II modules is sufficient to supply up to three PORTS/Xem modules.

When connected to an Xem adapter, the first two PORTS/Xem modules in a chain can operate on the power from the bus. For the third and fourth modules added to a chain, however, auxiliary power modules are required.

Note: If there is sufficient power for the module, the LED indicator on the side panel of the PORTS/Xem module will light.

Auxiliary power supplies are available for purchase from Digi. The auxiliary power supply is plugged into the AUX POWER connector on the left side of the PORTS/Xem unit.

Note: You must plug the power supply into the PORTS/Xem module *before* plugging it into an AC receptacle.

Adding to an existing installation

- When you add PORTS/Xem modules to an existing installation, you may need to reconfigure or reinstall the device driver on the host system before the additional ports are recognized by the system.
- Be sure to power off the host system when you are attaching (or removing) EBI cables going to PORTS/Xem modules.

Connecting peripherals

PORTS/Xem modules are available with either DB-25 or RJ-45 ports connectors. The connector type that you need at either end of the peripheral cable depends on the PORTS/Xem model you have and the type of connector on the peripheral.

The pin assignments for each type of PORTS/Xem connector are as follows:

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

* Chassis Ground is also available on the connector shell

RJ-45 Pin Assignment		
Signal	Description	Pin
RI	Ring Indicator	1
DSR	Data Set Ready	2†
RTS	Request To Send	3
GND	Chassis Ground	4
TxD	Transmitted Data	5
RxD	Received Data	6
SG	Signal Ground	7
CTS	Clear To Send	8
DTR	Data Terminal Ready	9
DCD	Data Carrier Detect	10

† Pin 2 can be configured for DCD (through Digi software) if you want to connect using an 8 pin connector

For more detailed cabling information, refer to the material packaged with the Xem host adapter, or Digi's web site at: www.dgii.com.