

### Overview

#### Models

##### Current Models

PCI to Quad-port (4) EIA-232 Async Adapter and 4-port Fan-out Cable with DB25s - DTE Male	PBXDA-BA
PCI to Eight-port (8) EIA-232 Async Adapter and 8-port Fan-out Cable with DB25s - DTE Male	PBXDA-BB
PCI to Sixteen-port (16) EIA-232 Async Adapter and Tabletop Distribution Module with RJ45s (10-Pin)	PBXDA-AC

##### EOL ASYNC Options

PCI (32-bit, 33-MHz) Quad-port (4) EIA-232 Async Adapter was superseded by the PBXDA-BA Adapter	PBXDA-AA
PCI (32-bit, 33-MHz) Eight-port (8) EIA-232 Async Adapter was superseded by the PBXDA-BB Adapter	PBXDA-AB

### Introduction

#### 4-port and 8-port

#### Adapters (PBXDA-BA and BB)

The PBXDA-BA and -BB are based on Digi International's AccelePort Xr 920 PCI EIA-232 family:

[http://www.digi.com/pdf/prd\\_msc\\_acceleportxr.pdf](http://www.digi.com/pdf/prd_msc_acceleportxr.pdf)

These cards were designed for use in multi-user (retail point-of-sale, industrial control processing, data collection, and office automation) and Remote Access Service (RAS) applications.

The AccelePort Xr 920 Family includes both four- and eight-port models, all with wide application flexibility and scalability, and Universal PCI bus signaling (3.3V-5V), and EIA-232 DB-25 DTE-Male ports.

An on-board 32-bit IDT RISC processor delivers high performance with speeds up to 921.6 Kbps. CPU utilization is optimized by efficiently handling serial I/O communication interrupts, character processing and data transfers.

Hardware/software flow control ensures the absolute data integrity required for your most active remote access applications and "mission-critical" multi-user environments. The AccelePort Xr 920 Family is compatible with V.34 and V.90 external modems.

#### 16-port Adapter (PBXDA-AC)

The PBXDA-AC is based on Digi International's AccelePort Xem asynchronous concentrator family.

[http://www.digi.com/pdf/prd\\_msc\\_acceleportxem.pdf](http://www.digi.com/pdf/prd_msc_acceleportxem.pdf)

The AccelePort Xem is an intelligent serial communication solution designed specifically for small to mid-size multiuser installations.

The PBXDA-AC lets users connect up to 16 high-speed EIA-232 serial ports to a PCI-based system. The result is a fast, reliable way to connect terminals, printers, modems, instruments and other serial peripherals, making it ideally suited to applications such as data acquisition, office/factory automation, and industrial process control.

These systems feature a host adapter card with an on-board RISC-based processor that delivers up to 115.2 Kbps line rates.

The AccelePort Xem system also includes a compact, tabletop, Digi PORTS Module that provides access to 16 RJ45 (10-pin) serial ports.

### Ease of Use

#### PCI Plug and Play

The PBXDA-xx family is compatible with the 2.2 PCI specification and automatically configures their I/O address and interrupts (IRQ) settings for easy installation.

### Product Highlights

**32-bit PCI Bus** The PBXDA family provides a 32-bit, 33-MHz PCI Universal Connector and supports both 5.0 or 3.3 volt bus signaling (PCI 2.2 compatible)

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**Bus-mastering** The PBXDA family implements a SLAVE design.

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### Reliability

#### Warranty

Maximum - The remaining warranty of the HP AlphaServer in which it is installed.  
Minimum - 1-year Return-to-Factory with Advance Exchange  
**NOTE:** Certain restrictions and exclusions apply. [Contact 1-800-OK-COMPAQ](http://1-800-OK-COMPAQ) for details.

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**Host Platform Support and Configuration Rules** Before ordering, refer to the Supported Options List for specific AlphaServers or AlphaStations at: <http://h18002.www1.hp.com/alphaserver/technology/index.html> to determine support status (hardware configuration rules, minimum supported revisions for Operating Systems, Console Firmware, and other related layered products).

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**Driver Support and Where to Find It** The driver CD-ROM is included with each option. Please note that the drivers provided on the included CD are the only drivers supported by HP.

### Ordering Information

#### Multi-port EIA-232 Async Adapters

**NOTE:** Refer to the respective Supported Options List

<http://h18002.www1.hp.com/alphaserver/technology/index.html>

for specific Alpha systems to determine current support status and configuration rules.

PCI to Quad-port (4) EIA-232 Async Adapter and DB-25 Fan-out cable – DTE Male

PBXDA-BA

PCI to Eight-port (8) EIA-232 Async Adapter and DB-25 Fan-out cable – DTE Male

PBXDA-BB

PCI to Sixteen-port (16) EIA-232 Async Adapter and RJ45 (10-pin) Tabletop distribution box with 5 foot (1.5 meter) interconnect cable

PBXDA-AC

Cable Converter RJ45 to DB25 for use with PBXDA-AC

CXI01-AC

Cable Converter RJ45 to DEC MJ11 (pack of 8) for use with PBXDA-AC

CXI01-AF

### Technical Specifications

<b>General Specifications</b> <b>PBXDA-BA and -BB</b>	Heavy-duty surge protection on all pins Per line data rates up to 921.6 Kbps 32-bit IDT RISC processor on board 16C654 quad UARTs Software configurable bus support Four or Eight Port DTE Male Fan-out Cables w/DB-25 connectors See <a href="http://www.digi.com/support/productdetl.jsp?pid=1347&amp;osvid=51&amp;vc=view#cabling">http://www.digi.com/support/productdetl.jsp?pid=1347&amp;osvid=51&amp;vc=view#cabling</a> for connector pin-outs. Supports full modem control and full hardware handshaking (CTS, RTS, DSR, DTR, and DCD)
<b>PBXDA-AC</b>	Surge protection on all EIA-232 signals Per line data rates up to 115.2 Kbps On-board IDT 3051 RISC processor Female HD44 connector to connect to the Digi PORTS module via a 5-foot (1.5m) cable. Includes PORTS/16em, Tabletop distribution box, with RJ45 (10-Pin) connectors. 8-Pin RJ45s can be used if "DCD" and "RI" signals are not required. See <a href="http://www.digi.com/support/productdetl.jsp?pid=2222&amp;osvid=7&amp;vc=view#cabling">http://www.digi.com/support/productdetl.jsp?pid=2222&amp;osvid=7&amp;vc=view#cabling</a> for connector pin-outs. Supports full modem control and full hardware handshaking (CTS, RTS, DSR, DTR, and DCD)
<b>Power and Environmental Specifications</b>	<b>Operating</b> 50° to 131 °F (10° to 55° C) 5% to 90% relative humidity (non-condensing) Altitude: 0 to 12,000 ft (0 to 3,600 m) Air movement: 30 CFM forced
	<b>Non-operating temperature</b> -8° to 185° F (-22° to 85° C)
	<b>Power requirements</b> <b>PBXDA-BA 4-port</b> +5 V ± 5% 955 ma typical +12 V ± 5% 40 ma typical -12 V ± 5% 40 ma typical <b>PBXDA-BB 8-port</b> +5 V ± 5% 960 ma typical +12 V ± 5% 80 ma typical -12 V ± 5% 80 ma typical <b>PBXDA-AC 16-Port</b> +5 V ± 5% 0.43 Amps typical for PCI card, plus 0.7 Amps for the PORTS module
	<b>Emissions Standards</b> FCC Part 15 Class B EN55022, Class B PBXDA-BA & -BB VCCI Class B PBXDA-AC VCCI Class B
	<b>Safety compliance</b> EN50082-2 ICES-003 Class B UL 1950 CSA 22.2 No 950 EN60950
	<b>Dimensions (L x W x H)</b> PBXDA-BA and -BB modules 9.0 x 0.5 x 4.2 in (22.86 x 1.27 x 10.67 cm) PBXDA-AC module 6.875 x 0.5 x 4.2 in (17.46 x 1.27 x 10.67 cm) External Desktop PORTS Box 12 x 7 x 2.25 in (30.48 x 17.78 x 5.72 cm)
	<b>MTBF</b> Calculated using the Bellcore RQGR Method I Parts Count Method, unless otherwise noted. This method assumes a commercial environment @ 40° C, and a 50% Electrical Stress Level for all components. PBXDA-BA 142,818 hours @25°C PBXDA-BB 109,493 hours @25°C PBXDA-AC 275,495 hours @25° C; em module 72,274 @25° C

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