DHB32

VAXBI Asynchronous Communications Controller

digital™

Simplify Your VAXBI Operation

The DHB32 is an asynchronous communications controller designed specifically for Digital's VAXBI systems. The DHB32 enables up to sixteen terminals, modems, and serial printers to directly communicate with a VAXBI processor. The DHB32 connects directly into a slot on the BI backplane, with a maximum of four DHB32's per BI bus.

Intended for efficient use of the VAXBI bus, the DHB32 relieves the VAX processor and bus of much of the overhead associated with handling communications lines. Using its own microprocessor and memory, the DHB32 transfers data directly to and from VAX memory, controls the sixteen asynchronous channels concurrently, and checks for errors.

The DHB32 option includes one module controller and a cabinet kit that is available in an EIA232 version or a DEC423 version. The EIA232 version includes a distribution panel with sixteen asynchronous channels having full modem control. The DEC423 version has sixteen DECconnect channels for terminal connection only. However, there are also two EIA232 channels on the DEC423 distribution panel which have modem control. By using a switch, these two channels can be used for connecting modems and the other fourteen DECconnect channels can be used to accommodate terminals.

The DHB32 emulates the asynchronous portion of Digital's DMB32 communications controller by using similar architecture and the same VMS driver. The functionality offered by the eight asynchronous channels on the DMB32 is extended to sixteen channels on the DHB32. Unlike the DMB32, there is no synchronous or parallel printer channel support on the DHB32.

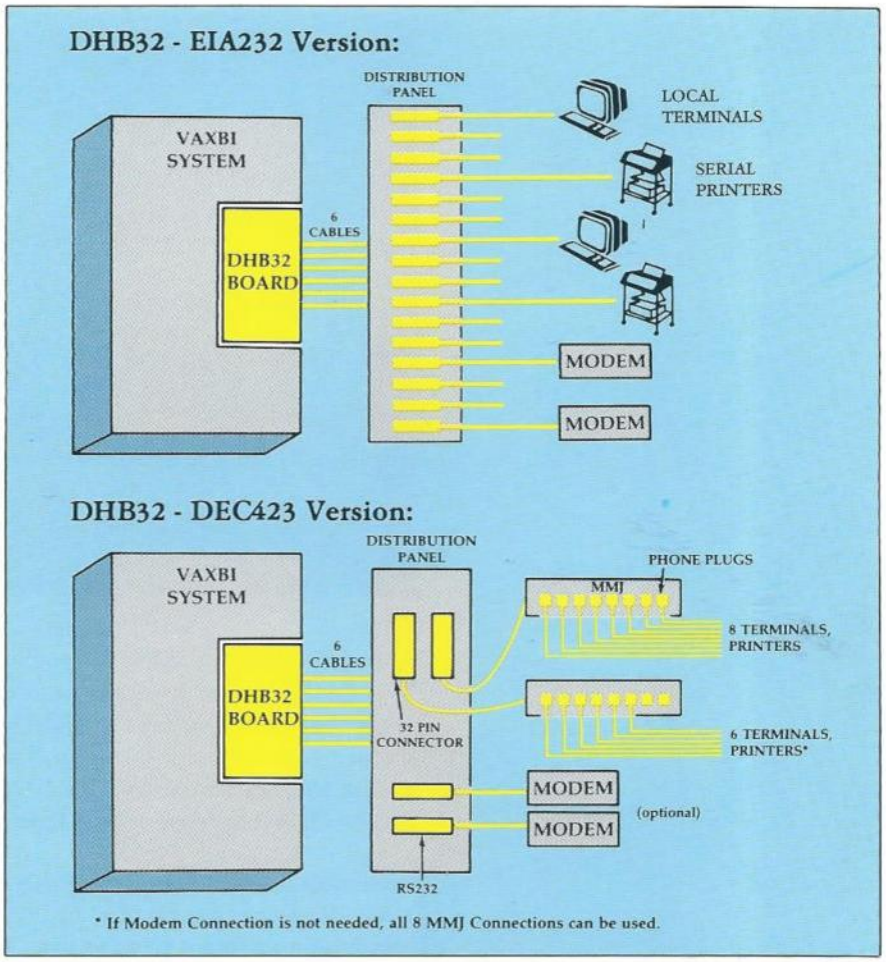
digital™

Highlights

- 16 asynchronous data channels for control of local terminals, modems, or serial printers.
- Direct Memory Access (DMA) or single-character programmed transfers to and from host memory.
- Programmable split-speed operation with automatic flow control of transmitted and received data.
- Full modem control including full duplex, auto-answer dial-up operation with EIA232 version.
- DECconnect terminal connection with DEC423 version.
- Supported by VAX/VMS Operating System, Version 4.6 or higher.
- Guaranteed throughput of 19,200 bps on 2 channels with 9,600 bps on remaining 14 channels simultaneously.
- Full range of diagnostics compatible with the DMB32.

Digital believes the information in this publication is accurate as of its publication date; such information is subject to change without notice. Digital is not responsible for any inadvertent errors.

The following are trademarks of Digital Equipment Corporation: DEC, DECsystem-10, DECsystem-20, DECUS, DECmate, DECnet, DECwriter, DIBOL, the Digital logo, MASSBUS, PDP, P/OS, Professional, Rainbow, RSTS, RSX, ULTRIX-32, UNIBUS, VAX, VAXBI, VAXELN, VMS and VT.



Specifications

Signal Compatibility

EIA232 Version:	Electrically and mechanically compliant with EIA RS-232-D (replaces RS-232-C), and compatible with CCITT V.28/V.24 standards.
DEC423 Version:	All 16 channels conform to DECconnect DEC423 (Type III connectors). Channels 14 and 15 are switchable between DECconnect DEC423 and EIA RS-232-D.

Power Requirements:

+ 5 Vdc ±5%	at 5.56 A
+12 Vdc ±3%	at 420 mA
−12 Vdc ±3%	at 420 mA

For more information about the VAXBI systems and their peripheral controllers, contact your local Digital sales office, or call 800-832-6277. In New Hampshire call (603) 884-8990.

Printed in U.S.A. YM-AA120-00 11/87 15.0 Copyright 1987, Digital Equipment Corporation All Rights Reserved