

Overview

Models

EOL / No Longer Available

Dual-Function "Combo" Adapter provides 2D Graphics and 10/100 UTP Ethernet in a single PCI slot

3X-DEPVD-AA

NOTE: The 3X-DEPVD-AA has retired and should not be used for any new application, or project. Customers, depending on their specific AlphaServer or AlphaStation, may be able to use the Triple-Function 3X-DEPVZ-AA (10/100BASE-T Ethernet, 2D Graphics, and LVD SCSI-2). Please refer to the Supported Options List (SOL) to determine support for your Alpha system: <http://h18002.www1.hp.com/alphaserver/>

Introduction

Multi-function "Combo" Adapter modules reduce the number of PCI I/O slots required to configure an AlphaServer or AlphaStation, and in doing so, frees PCI slots for the addition of other functional I/O modules required by your application.

The 3X-DEPVD-AA is a dual-function "Combo" Adapter that provides:

- 1) 10/100 UTP Ethernet (based on Intel's 82558 fast Ethernet ASIC). The 10/100 Mb/s Ethernet port is capable of running in either full-or half-duplex mode.
- 2) 2D Video (based on 3Dlabs Permedia2V video ASIC) with 4 MB of graphics memory, both operating behind a Universal 32-bit, 33-MHz PCI-to-PCI (Intel 21152) bridge chip.

The Dual-Function Fast-Ethernet/2D Video host adapter offers a high degree of functional integration to enhance the configuration flexibility of HP Alpha Platforms.

Product Highlights

Ease of Use

PCI Plug and Play

Jumperless "Plug and Play" implementation. Compliant with the PCI 2.1 PCI specification, this adapter can be automatically configured to set its I/O address and interrupt (IRQ) settings for easy installation.

Ethernet Auto-negotiation/ Configuration

The adapter will auto-negotiate to configure at the highest common Ethernet connection speed and mode between the Ethernet port and another Ethernet NIC, hub, or switch port. That is, 10 or 100 Mb/s, in either full-or half-duplex mode operation.

Diagnostic LED Indicators

The 10/100 Ethernet port provides LED indicators to show link integrity, network speed, and network activity at a glance for easy troubleshooting.

Performance

32-bit PCI Bus

Efficient data transfer between the network the host CPU is essential for high-performance and low CPU utilization. The 3X-DEPVZ-AA provides a PCI 2.1 compliant, Universal PCI Connector to work in a 32-bit PCI bus slot, and uses bus-mastering technology to maximize throughput and optimize host system utilization.

10/100 Ethernet Port

Direct 10Base-T or 100Base-TX network connection with full auto-negotiation support
Full-or half-Duplex mode of operation
Speed, Link Status, Transmit and Receive activity LEDs

2D Graphics Functions

- Full Primitive Support: Points, lines, spans, rectangles, polygons
- Efficient Processing of Small Primitives: Integrated setup calculation, low latency
- Window Clip: Hardware rectangle clipping
- Ultra-Fast Solid Fill: SGRAM block fills
- Ultra-Fast Monochrome Expansion: SGRAM block fills with pixel mask
- High Speed Color Brushes: Internal pattern RAM
- High Speed Monochrome Brushes: Internal stipple table
- Faster Operations: Logic op unit
- Fast BLTS: Wide data path
- Fast Upload and Download: Packed into 32-bit words
- High Speed Monochrome Download: Bitmask test with SGRAM block fills
- Flexible Font Caching Support: Byte aligned monochrome bitmaps in local memory
- Color Translation: Through internal LUT

Security/Reliability

Network Fault Tolerance (NFT)

Failover to a second Fast Ethernet, or other LAN technology, is provided by NETrain under Tru64 UNIX and by OpenVMS Clusters.

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 for details.

Host Platform Support and Configuration Rules

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.

Driver Support and Where To Find It

Driver Support is provided as part of the host AlphaServer or AlphaStation Operating System Distribution - Tru64 UNIX and OpenVMS. As stated above, refer to the respective host Alpha system Supported Options List to determine support and any required patch kits

Ordering Information

NOTE: Before ordering, refer to the Supported Options List (SOL) for specific AlphaServers or AlphaStations at: <http://h18002.www1.hp.com/alphaserver/> to determine support status (hardware configuration rules, minimum supported revisions for operating systems, console firmware, and other related layered products).

Dual-Function / Combo 10/100BASE-T Ethernet, and 2D Graphics PCI Adapter

Part Number	Description
3X-DEPVD-AA	PCI Combo Adapter 10/100BASE-T Ethernet, and 2D Graphics NOTE: This option has retired and is no longer available.

Technical Specifications

General Specifications	<p>Single PCI slot operation</p> <p>Universal, 32-bit, 33-MHz PCI bus-master interface</p> <p>PCI 2.1 compliant</p> <p>EEPROM support for configuration and customization feature section</p>
Power and Environmental Specifications	<p>Operating temperature 32° to 122° F (0° to 50° C)</p> <p>5% to 90% relative humidity, non-condensing</p> <p>Non-operating temperature 32° to 140° F (0° to 60° C)</p> <p>5% to 90% relative humidity, non-condensing</p> <p>Power requirement 2.0A @ 5V maximum</p> <p>0.03A @ 12V</p> <p>Emissions Standard FCC Class B, VCCI Class B on Alpha Platforms</p> <p>Safety compliance CE Mark: UL 1950, CUL, TUV</p> <p>Dimensions (L x W) 7.75 x 5 in (19.7 x 12.7 cm)</p>
Single port 10/100 Base-TX	<p>IEEE 802.3/802.3u 10Base-T and 100Base-TX compatible</p> <p>Single RJ-45 connector</p> <p>Cable support - Cat. 3, 4, 5 UTP for 10 Mb/s and Cat. 5 UTP for 100 Mb/s</p> <p>Support for IEEE 802.3u Auto-Negotiation</p> <p>Full- or half-duplex capable at 10 or 100 Mb/s</p>
3Dlabs P2V Graphics Chip 2D Graphics Functions	<p>Software Support 2D GDI on both OpenVMS & Tru64 UNIX.</p> <p>OpenGL, 3D graphics operations and Z-buffer are not supported.</p> <p>VGA All VGA modes are supported and function for all operating systems. (VGA disable jumper available for manual configuration.)</p> <p>Maximum Supported Resolutions 1280 x 1024 @24 bit @60, 65, 70 & 75Hz</p> <p>1024 x 768 @24 bit @60, 65, 70, 75, 85Hz</p> <p>800 x 600 @24 bit @60, 65, 70, 75, 85Hz</p> <p>640 x 480 @24 bit @60, 65, 70, 75, 85Hz</p> <p>Multi display Support for 1 screen only</p> <p>GenLock Not supported</p> <p>YUV Color Space Conversion YUV 422 to RGB conversion</p> <p>Video Scaling Hardware accelerated bilinear filtered scaling of video images in the video overlay</p> <p>DVD Not supported</p> <p>Video input/output Not supported</p> <p>Streaming Video Not supported</p> <p>Maximum Number of Monitors 1 x 2D screen for Tru64 UNIX, 1 x 2D screen for OpenVMS</p> <p>Monitor Support P110 - 21", P75 - 17", P700 - 17", P1100 - 21", P900, TFT5000, TFT8000 as well as most multi-sync monitors</p> <p>Compaq Flat Panel Connector Not Supported</p> <p>Monitor Connector Standard D-shell 15-pin HD connector</p> <p>Minimum Frame Buffer Size 4-MB unified memory, with 96 bits per Pixel</p> <p>Monochrome planes 8-bit grayscale, Overlay 0</p> <p>Gamma Correction 10-bit Gamma correction, Stencil Planes 0</p> <p>Maximum Resolution 1280 x 1024 @75 Hz, Alpha Planes 0</p> <p>Alpha Planes 0, Window ID 1</p>

Technical Specifications

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