

Overview

Models

Ultra160 Single Channel SCSI Controllers

For HP9000 & Integrity Servers and Intel® Itanium processor workstations only running HP-UX

A6828A

For Integrity Servers and Intel Itanium processor workstations only running Windows®/Linux

A7059A

Ultra160 Dual Channel SCSI Controller

For HP9000 & Integrity Servers and Intel Itanium processor workstations only running HP-UX

A6829A

For Integrity Servers and Intel Itanium processor workstations only running Windows/Linux

A7060A

Introduction

The Ultra160 single channel SCSI adapter and the Ultra160 dual channel SCSI adapter enable one Ultra160 SCSI channel to give you access to the high performance SCSI connectivity. These adapters can be used for connectivity to internal SCSI disks or external SCSI peripherals. The Ultra160 SCSI adapters are backwardly compatible with older SCSI standards.

Performance

Single-channel Ultra160 SCSI card, with one external and one internal SCSI connectors

The Ultra160 Single Channel SCSI host bus adapter (HBA) is a single channel SCSI card that supports Low Voltage Differential (LVD) and Single-Ended (SE) SCSI devices, including Ultra160 SCSI hard drives, as well as Fast/Ultra/Ultra2 SCSI devices. It can achieve a maximum data transfer rate of up to 160 MB/s. It has a 64-bit 66 MHz PCI interface. All devices must be Low Voltage Differential or Single Ended; High Voltage Differential devices will not function with this controller.

The controller performs 16-bit, Ultra160 SCSI synchronous data transfers as fast as 160 MB/s and is more evenly able to sustain high data transfer rates than EIDE. This is of particular benefit in tasks requiring the transfer of large files or multiple hard drive accesses. If the system is heavily loaded or you are running large block size applications such as video on-demand or image processing, then SCSI is likely to be helpful.

Dual-channel Ultra160 SCSI card, with two external and two internal SCSI connectors

The Dual Channel PCI Ultra160 SCSI host bus adapter (HBA) provides two Ultra160 SCSI-3 interfaces to PCI computer systems. When you install this adapter in your PCI system, it allows connection of up to 15 SCSI devices per channel, which means a total of 30 SCSI devices per adapter.

Key Benefits

- 160 MB/s performance
- Support for asynchronous and synchronous data transfer modes.
- Self-resetting TERMPower fuse
- Backwards compatibility protects legacy drives
- Industry-leading compatibility and reliability
- Domain Validation, Double Transition (DT) data transfers, and Cyclic Redundancy Check (CRC-32)

Compatibility

The Ultra160 Single Channel Controller and the Dual Channel Controller are compatible with the HP Workstations zx2000 and zx6000 and all HP Integrity Servers.

Service and Support

Ultra160 Single Channel and Dual Channel Controllers have a one-year limited warranty or the remainder of the warranty of the HP product in which they are installed. Technical support is available seven days a week, 24 hours a day by phone, as well as in online support forums. Certain restrictions and exclusions apply.

Technical Specifications

Bus architecture	64-bit, 66 MHz PCI
Number of supported devices	15 on Single Channel 30 on Dual Channel
Interface protocol	Supports Fast, Ultra, Ultra2, and Ultra160
Host bus transfer rate	Up to 160 MB/s
SCSI data transfer rate	Up to 160 MB/s
Bus width	64-bit
Internal connectors	Single Channel Controller One 68-pin high density SCSI - supports 16-bit SE or LVD. (HD connectors are not supported on HP-UX systems) One 64-bit PCI bus connector Dual Channel Controller Two 68-pin high density SCSI - supports 16-bit SE or LVD. (HD connectors are not supported on HP-UX systems) One 64-bit PCI bus connector
External connector	Single Channel Controller One 68-pin VHDCI SCSI - 16-bit SE or LVD Dual Channel Controller Two 68-pin VHDCI SCSI - 16-bit SE or LVD
Total connectors	Single Channel Controller 3 Dual Channel Controller 5
Plug and Play Support	Yes
HBA characteristics	PCI 4X adapter (66MHz, 64-bit data transfers)
Software included	SureLINK domain validation Various OS drivers
Dimensions (H x L)	22.72 x 10.8 cm (8.95 x 4.25 in)
Environmental specifications	Operating temperature 32° to 113° F (0° to 45° C) Relative humidity range: 40% at 71.6° F (22° C) Non-operating temperature -40° to 158° F (-40° to 70° C) Humidity range: 90%
Approvals/Environmental	FCC, CE, UL
Operating system support	Microsoft® Windows XP, Microsoft Windows 2000, and Microsoft Windows Server 2003, Red Hat Linux 7.3 and Red Hat Linux AS 2.1 HP-UX 11i v1 and HP-UX 11i v2

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