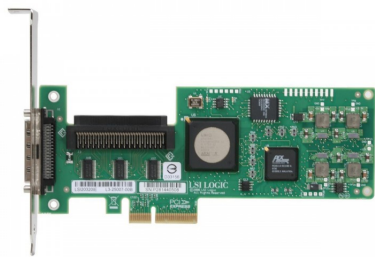


Broadcom LSI20320IE Datasheet



Broadcom LSI LSI20320IE LSI00154 PCI Express x4 LSI53C1020A Ultra320 SCSI Single-Channel HBA

LSI20320IE

LSI PCI Express host bus adapters provide high-availability, scalability, and are compatible with the newest workstations and servers. The LSI20320IE adapter features internal and external Ultra320 SCSI channels that allow data transfer rates of 320MB/s. Supporting up to 15 devices for a flexible, fault-tolerant solution, this adapter is ideal for entry-level to enterprise servers and high-performance workstations with PCI Express slots.

The LSI20320IE delivers the speed and bandwidth required by today's data intensive storage applications, such as data mining, internet, email, graphics, audio editing, database servers, scientific simulation and video streaming. It is ideal for connecting to tape drives and libraries for back-up, disk drives, JBODs, RAID arrays and other SCSI peripherals.

Features

- Ultra320 SCSI
- PCI Express x4 lanes
- Low-profile MD-2 small form-factor design
- Fusion-MPTTM architecture
- Allows up to 15 internal or external physical devices
- SureLINKTM domain validation optimizes device connections

- Supports all major Operating Systems

Benefits

- 320MB/s data transfer rates
- High-bandwidth serial PCI Express host interface (2.0 GB/s full-duplex)
- Ideal for 1U/2U rack servers
- Thinner divers improve performance (up to 100,000 I/Os per sec)
- Outstanding flexibility for Ultra320 & legacy device connectivity
- Exceptional data reliability and signal quality

Specifications

- Part Number: LSI20320IE
- Product: PCI Express Ultra320 SCSI Single-Channel HBA
- PCI Bus: PCI Express x4 Lanes
- PCI Modes: Bus Master DMA
- PCI Express Card Type: x4
- PCI Express Voltage: +12V ±10%
- PCI Express Form Factor: 6.6" x 2.53" (MD2 Low-Profile)
- PCI Express Power: 10W (without providing termination power)
- Bracket: Full Height and Optional Low-Profile Bracket
- PCI Certification: PCI Express 1.0a
- SCSI Bus: Wide Ultra320, LVD (Low Voltage Differential) and Wide Ultra SE (Single-Ended)
- SAS Processor: LSI53C1020A
- Connectors
 - Internal: Internal: 68-pin HD
 - External: 68-pin VHDCI
- Termination: Universal (LVD/SE) termination per channel
- Termination Power: Self-resetting 1.5A fuse per channel
- LED Indicators: 4-pin header for off-board LEDs
- Flash Memory: 512k x8 Flash EEPROM
- Max Number of Physical Devices: 15

- Environments Operating:
- 0°C to 55°C, 5 to 90% Non-condensing
- Storage: -45°C to 105°C, 5 to 90% Non-condensing
- MTFB: >200,000 Hours
- Compliances: EMC:EMC: Class B-US (CFR 47, P15B); Canada (ICES-003); Japan (V-3/02.04); Europe (EN55022/EN55024); Australia/ New Zealand (AS/NZS 3548); Safety: EN60950
- Operating System Support:
 - Microsoft® Windows® NT4.0 SP4 and above, 2000, 200SP1, XP and Server 2003
 - Red Hat® Linux® 2.2 and 2.4 Kernels
 - Novell® NetWare® 4.11, 4.2, 5x
 - UnixWare® 2.12 and 7x
 - SCO Unix 5.x
 - Solaris x86 Version 8, 9 and 10
 - Sun Solaris Version 2.6 and later, Open Boot PROM Version 3.0 or greater

Package Content

- LSI20320IE Single Retail
 - Individually packaged box containing the LSI20320IE card, Driver CD, Low-Profile Bracket, and Quick Install Guide
- LSI20320IE Bulk Package - Card only.

For more information of this Broadcom LSI Logic LSI20320IE, please visit Broadcom website:

<https://docs.broadcom.com/doc/12352276>

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