

Broadcom SAS3442E-R Datasheet



Broadcom LSI SAS3442E-R LSI00110 PCI Express x8 4-port Internal & 4-port External 3 Gb/s SAS Host Bus Adapter
SAS3442E-R

The LSISAS3442E-R card provides ultra-high speed data transfer for data back-up and mission critical applications. The HBA offers eight 3Gb/s ports, driving up to 122 Serial Attached SCSI and Serial ATA RAID and non-RAID devices. The low-cost host bus adapter supports medium to large capacity internal server storage applications by connecting a 2.5Gb/s 8-lane PCI Express bus with one external x4 SFF8470 connector and one internal x4 SFF8484 connector. Performance advantages over parallel SCSI are seen from the huge increase in data throughput and device support from SAS, utilizing LSI's Integrated RAID solution.

Features

- 3 Gb/s per port
- x4 internal SFF-8484 /x4 external SFF-8470 connectors
- Integrated RAID 0, 1, 1E and 10E
- 8-lane 2.5 Gb/s PCI Express
- MD-2 small form-factor design
- Connects to both SAS and SATA HDDs and tape drives
- Allows more than 122 total end-point devices
- Fusion-MPT architecture provides more than 140,000 I/Os per second
- Supports all major operating systems

Benefits

- Integrated RAID avoids additional host CPU overhead
- Flexible SAS/SATA array architecture optimizes cost
- SAS/SATA interconnect proven through robust LSI serial technology
- Speed: 3 Gb/s per port combines to 4.8 Gb/s full duplex speed
- Complete solution: kit includes all necessary cables and brackets
- Market leader: LSI SAS powers 80% of SAS worldwide

Specifications

- Part Number: LSISAS3442E-R
- Product: 3Gb/s SAS Eight-Port Host Bus Adapter with Integrated RAID
- PCI Bus: 8-lane, 2.5Gb/s PCI Express
- PCI Modes: Bus Master DMA
- PCI Card Type: 3.3 Volt Add-in Card
- PCI Form Factor: 6.6" x 2.5" (MD2 Low-Profile)
- PCI Power: 7.5W
- Bracket: Full Height and Low Profile
- PCI Certification: PCI Express 1.0a
- I/O Bus: Two x4 3Gb/s SAS/SATA Ports
- SAS Controller: LSISAS1068E
- Connectors
 - Internal: One SFF8484 SAS Connector
 - External: One SFF8470 SAS Connector
- LED Indicators:
 - Internal Activity per PHY
 - Internal Fault per PHY
- Integrated RAID Levels: RAID 0, 1, 1E and 10E
- Environments Operating:
 - 0°C to 60°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® 2000, Server 2003 32-bit and 64-bit (x86 and AMD64), XP
 - Red Hat® Linux® RHEL 3
 - Novell® NetWare® 5.1 and 6.5
 - SuSE® Linux®/SLES
 - Sun SPARC Solaris 2.6 thru 2.10

Ordering Part Numbers

- LSI LSISAS3442E-R Retail (Retail Box)
 - Individually packaged box with LSI LSISAS3442E-R HBA, CD containing drivers, low-profile bracket, and quick installation guide
 - Part Number: LSI00167
- LSI LSISAS3442E-R KIT (Retail Box with Cables)
 - Individually packaged box with LSI LSISAS3442E-R HBA, CD containing drivers, (1) internal cable for connecting to (4) SAS hard disk drives, (1) internal cable for connecting to (4) SATA HDD or SATA-style backplane connectors, low-profile bracket, and quick installation guide
 - Part Number: LSI00110
- LSI LSISAS3442E-R BULK
 - Bulk pack containing LSI LSISAS3442E-R HBA

For more information of this Broadcom LSISAS3442E-R, please visit Broadcom website:

<https://docs.broadcom.com/doc/12352187>

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