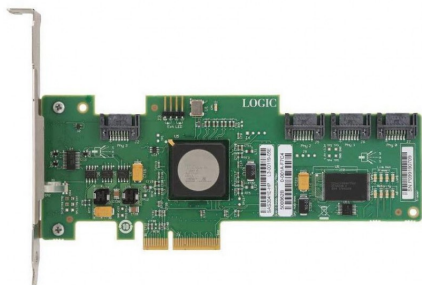# Broadcom SAS3041E-R Datasheet

Broadcom LSI SAS3041E-R 3041E-R PCI Express x4 4-port 3Gb/s Internal SAS/SATA Host Bus Adapter

SAS3041E-R

The LSI SAS3041E-R is a low-cost 4-port 3 Gb/s internal SAS/SATA host bus adapter. This card offers dynamic SAS functionality including dual-port drive redundancy and SATA compatibility. The SAS3041E-R also offers integrated RAID 0, 1, 1E and 10E for high-performance data protection, making it perfect for medium capacity internal storage applications.

Features

- 3 Gb/s per port
- (4) internal SATA x1 connectors
- Integrated RAID 0, 1, 1E and 10E
- 4-lane 2.5Gb/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 providing more than 140,000 I/Os per second
- Supports all major operating systems

Key Advantages

- Integrated RAID: LSI RAID avoids additional host CPU overhead

- Flexibility: combined SAS/SATA array architecture optimizes cost

- Scalability: addresses up to 122 devices using SAS expanders

- Speed: with 3 Gb/s per port, combines to 2.4 Gb/s full duplex speed

- Complete solution: kit includes all necessary cables and brackets

- Market leader: LSI SAS powers 80% of SAS worldwide

Specifications

- Product: LSI SAS 3041E-R

- PCI Bus: 4-lane, 2.5Gb/s PCI Express

- PCI Modes: Bus Master DMA

- PCI Card Type: +3.3V ±0.3V 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: Four 3Gb/s SAS/SATA Ports

- SAS Controller: LSISAS1064E

- Connectors

  - Internal: Four – SATA x1 Connectors

  - External: N/A

- LED Indicators: Internal Activity, per Phy (4) Internal Fault, per Phy (4)

- 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

Ordering Part Numbers

- LSI LSISAS3041E-R Retail (Retail Box)

- Individually packaged box containing the LSISAS3041E-R Card, driver CD, low-profile bracket, and installation guide.
  - Part Number: LSI00168
- LSI LSISAS3041E-R Kit (Retail Box with Cable)
  - Individually packaged box containing the LSISAS3041E-R Card, driver CD, low-profile bracket, (4) x1 SATA cables, and installation guide.
  - Part Number: LSI00112
- LSI LSISAS3041E-R (Bulk)
  - Bulk Package LSISAS3041E-R HBA.

For more information of this Broadcom LSI SAS3041E-R, please visit Broadcom website:

https://docs.broadcom.com/doc/12352184

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