

**Astek A34012-PCI
40-Port 12Gb/s SAS
Expander Card**



Key Features

- LSI SAS3x40-port, 12Gb/s SAS Expander
- 8 external, 12Gb/s SAS+SATA ports
 - Two, x4, Mini-SAS HD external connectors (SFF-8644) for SAS controller connectivity
- 32 internal, 12Gb/s SAS+SATA Ports
 - Eight, x4, Mini-SAS HD internal connectors (SFF-8643) for drive connectivity
 - DataBolt™ Bandwidth Optimizer
- Heartbeat LED
- Full Height bracket
- Optional auxiliary power connector

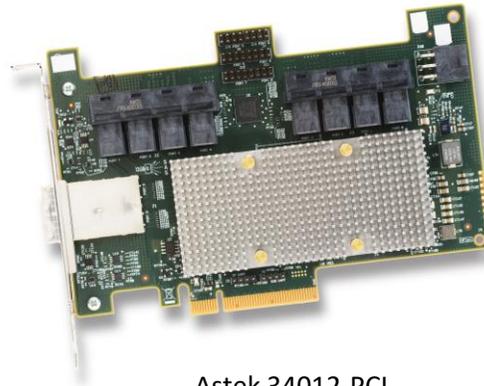
Key Advantages

- Solution for internal high port connectivity and external connectivity expansion
- High performance with 12Gb/s SAS data transfer rates

LED Management

- Expandable, Simple
- On board SASSG16, SGPIO Target
- SFF-8485 (SGPIO) compliant
- Low Routing Congestion

12Gb/s SAS, high port count expander card doubles the SAS data rate from previous generations providing high performance and large scalability.



Astek 34012-PCI

Overview

The Astek A34012-PCI 12Gb/s SAS expander card provides increased connectivity for internal drives and external connectivity storage expansion. The expander card is based on the LSI SAS3x40 SAS/SATA. .

The Astek A34012-PCI expander card has two x4 mini-SAS HD external connectors (SFF-8644) and eight x4 mini-SAS HD internal connectors (SFF-8643). The internal connections are dedicated to internal drive connections (32 ports) and for SAS Controller connectivity (8 ports).. This device supports SAS data transfer rates of 12, 6, 3Gb/s, and SATA data transfer rates of 6 and 3Gb/s.

SAS Expander and Switch Leadership

Astek is a storage market leader in SAS Expander and Switch technology. Astek provides SAS Expander and Switch components for both 6Gbps and 12Gbps SAS storage ecosystems. Astek SAS Expander products allow our customers to build custom JBODs/RBODs, scale their storage and provide ease of LED management. Astek Switch products allow SAN management of the entire SAS Domain by providing zoning, security, connectivity, storage scalability, and enabling Software Defined Storage Clusters and Scale Out File Servers. Astek solutions provide the performance, connectivity, scalability, and manageability required for today's storage environments.



A34012-PCI Data Sheet

Expander	LSI SAS3x40
Port Count	8 port external/32 port internal
Connectors	Mini SAS HD SFF8644 Two (x4) SFF86443 Eight (x4))
Storage Connectivity Data Transfer Rates	12Gb/s SAS 3.0 Compliant
Port Configurations	32 ea, x1 ports (individual drives) 2 ea, x4 wide port
Form Factor	Full Height
Physical Dimensions	4.4" x 6.6"
Cable Support	Internal connectivity : Passive Copper External connectivity: Passive Copper and Active Optical
Operating Voltage	+12V +/-8%
PCI Power (Nominal)	21.4W
Environmental	Operating: 0°C to 40°C Storage: -45°C to 105°C 5 to 90% Non-condensing
MTBF	>2,400,000 hours
Regulatory Certifications	Designed to be compliant to Safety standards UL-60950-1, CSA-60950-1, and IEC-60950-1. Designed to be compliant to Emissions standards EN-55022:2010/CISPR 22:2010, FCC Part 15 Subpart B Class A, ICES-003 and Immunity standard EN 55024:2010/CISPR 24:2010.
Warranty	Limited 1 years warranty
Astek Ordering Part Number	A34012-PCI-01

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WARRANTY

Astek products are assembled and tested in world-class facilities to assure superior product reliability and performance.

About Astek Corporation

Astek manufactures storage products for embedded markets including medical, telecommunications and military applications. In addition to Host Bus Adapters, Astek also supplies Serial Attached SCSI solutions including edge and fan-out expanders.

For more information please visit the Astek web site at:

www.astekcorp.com

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