



16-Bay 12Gb/s SAS Test Storage Enclosure



The Astek A41612-ENC utilizes state of the art Gen3 Serial Attached SCSI (SAS) expanders operating at up to 12Gbps, to provide a light weight compact JBOD with industry leading performance. Based on Astek's innovative SAS expander board, combined with a precision machined chassis, and a unique 'sled-less' disk mounting mechanism these enclosures can hold sixteen 2.5" hard disks, including Solid State Disks and high-performance SAS hard disks from 6mm to 14mm.

The A41612-ENC makes an ideal storage test enclosure. The configuration between the expander board and storage backplane can be changed by simply reconnecting the SAS internal cables.

The A41612-ENC provides four Mini-SAS HD external SAS x4 wide-port connections, each supporting up to 48Gbps of I/O, active and optical cables and these ports can be combined for up to 96Gbps of total throughput from host(s) to media. Each port can be connected either to a separate host, or they can be used to connection to an external SAS bus expander or another A41612-ENC, allowing system designers to cascade multiple enclosures to further increase the total available storage.

KEY APPLICATIONS

- Lab and test systems
- Direct Attached Storage (DAS)

PRODUCT FEATURES

- ANSI T10 SAS 3.0 Bus Expander
- Up to 12Gbps per port
- 32 SAS expander ports
- SFF-8644 External Mini-SAS HD
 - Can be used for host or cascade links
- Supports multi-lane aggregation for wide-port configurations
- Supports passive, active copper and optical
- SCSI Enclosure Services (SES)
- Thermal and chassis fan monitoring
- Device slot mapping and VPD
- 1 year limited warrant

Ordering Information

A41612-ENC-01	16-bay 12Gb/s SAS storage enclosure



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Technical Specifications

Compliance	ANSI T10 SAS specification 3.0		
Data Transfer	Up to 192Gb/s on external SFF-8644 connectors		
Modes	Direct-attach, cascaded attachment		
Supply Voltage	100-240 VAC @ 50/60Hz		
Supply Power	Measured: 28W w/o drives, up to 200W supported		
SAS Bus	Thirty-two 12Gb/s SAS/SATA ports		
SAS Bandwidth	@3Gb/s	@6Gb/s	@12Gb/s
Single Lane	300 MB/s	600 MB/s	1200 MB/s
Wide Port (4 lanes)	1200 MB/s	2400 MB/s	4800 MB/s
Wide Port (8 lanes)	n/a	4800 MB/s	9600 MB/s
Connectors	4 SFF-8644 Mini-SAS HD		
Form Factor	2U - 3.47" x 19" x 10"		
Protocols	SAS 2.0, SAS 2.1, SAS 3.0, SCSI SAM-4, SATA 3.0Gbps, SATA 6.0Gbps		
Device Support	16 target disks, SAS or SATA		
Agency Approval	RoHS Compliant (lead-free)		
Environments	Operating	Storage	
Temperature	15° to 45° C	-10° to +85° C	
Relative Humidity	5 to 90% non-condensing Airflow: 200 LFM	5 to 90% non-condensing	

WARRANTY

Astek products are assembled and tested in world-class facilities to assure superior product reliability and performance. Astek's board products carry a one-year limited warranty.

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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