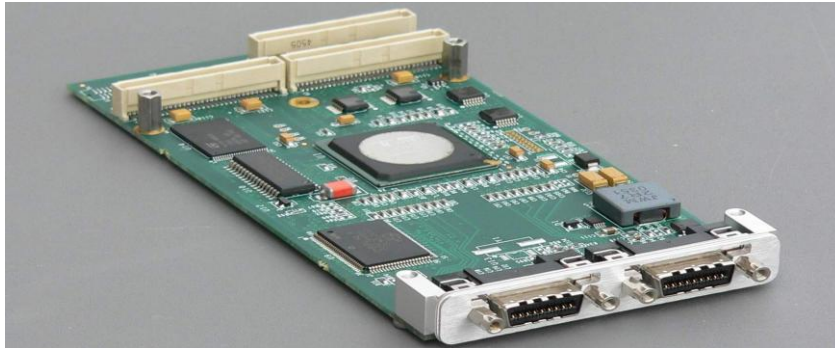


A3803-PMC Serial Attach SCSI (SAS) Host Bus Adapter (HBA)



KEY APPLICATIONS

- High Performance workstations
- VME and cPCI Single Board Computers (SBC's)
- Direct Attached Storage (DAS)
- Storage Area Networking (SAN)

Point-to-point connections for greater performance and reliability; and the choice of drive connect.

The Astek A3803-PMC doubles the performance of today's dual channel Ultra320 SCSI HBAs with aggregate I/O port bandwidth of 2.4GBps and full duplex capability. These adapters are ideal for today's data centers and leverage existing SCSI infrastructure for investment protection and ease of migration. The serial interface allows point-to-point connection offering higher performance, increased aggregate bandwidth, higher availability with dual ported drives, and enhanced reliability compared to parallel SCSI. The A3803-cPCI supports 3 and 1.5 Gbps SAS and SATA hard disk drives.

PRODUCT FEATURES

- 3Gbps per port, 8 ports
- Connects to both SAS and SATA hard disk drives
- 64-bit, 133MHz PCI-X
- LSI Logic's Fusion-MPT™ featuring over 140,000 I/O's per second
- Supports all major OSs
- 1 year limited warranty

OS Independent Hardware RAID (0,1)

Integrated RAID (IR) provides the reliability and performance benefits of disk mirroring (RAID 1) and striping (RAID 0). Integrated Mirroring™ (IM) provides data protection for the system boot volume by simultaneously writing redundant data across two to six disks. Integrated striping yields enhanced performance by aggregating the bandwidth of up to six disk drives. IR is OS-Independent and does not require the use of special device drivers.

A3803-PMC Ordering Information

A3803-PMC-05

Two-x4 SFF-8470 Front Panel RoHS Compliant



Technical Specifications

Host Bus Type	64-bit/133MHz PCI-X, backward compatible to PCI	
Compliance	PCI 2.2, PCI-X 1.0a, PCI-X 2.0 mode 1, IEEE 1386.1, VITA-39	
Data Transfer	132MB/s (PCI 32-bit bus @33MHz) 264MB/s (PCI 64-bit bus@33MHz) 528MB/s (PCI 64-bit bus @66MHz) 800MB/s (PCI-X 64-bit bus @100MHz) 1056MB/s (PCI-X 64-bit bus @133MHz)	
Modes	Bus master DMA	
PCI Voltage	+3.3V +/- 5%	
PCI Power	7.5 Watts excluding transceivers	
SAS Bus	Eight 3Gbps SAS/SATA ports	
SAS Bandwidths	Single lane – 300 MBps Wide Port (2 lanes) – 600 MBps Wide Port (4 lanes) – 1200 MBps	Single SAS Lane – 600 MBps Wide Port (2 lanes) – 1200 MBps Wide Port (4 lanes) – 2400 MBps
Connectors	External	Internal
A3803-PMC-(01/05/51)	Two- x4 SFF-8470	none
A3803-PMC-02	none	x8 lanes routed to P4
A3803-PMC-03	One – x4 SFF-8470	x4 lanes routed to P4
Form Factor	5.87" x 2.91", 150 mm x 75 mm PMC Mezzanine Card	
Protocols	SCSI, IP	
Device Support	Thousands of SAS WWIDs, more than 256 target disks with SAS fan-out expanders	
Agency Approval	CE, Canada, FCC class A, UL Registered	
Environments	Operating	Storage
Temperature	0° to 55° C	-40° to +85° C
Relative Humidity	5 to 90% non-condensing	5 to 90% non-condensing

WARRANTY

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

For more information please visit the Astek web site at:

www.astekcorp.com

Astek Corporation

5055 Corporate Plaza Dr.
Colorado Springs, CO 80919
USA

Tel: +1 866-427-8351

Tel: +1 719-260-1625

Fax: +1 719-260-1668

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Software Support

OS Support	Versions
Windows	2000, Server 2003 32-bit and 64-bit (x86 and AMD64), XP
RedHat Linux	RHEL 3
SuSE Linux	9
Novel NetWare	5.1, 6.5
Sun Sparc Solaris	2.8, 2.9, 2.10
VxWorks	5.5,6.x