

adaptec SAS Expander Card

PRODUCT BRIEF



12Gb/s 36-port SAS Expander Card 82885T

SCALABLE STORAGE SOLUTIONS FOR DATA CENTERS

The 12Gb/s PMC® Adaptec® 82885T SAS Expander Card offers a scalable connectivity / fan-out option for additional drives when used in conjunction with a SAS RAID adapter or SAS HBA. The Adaptec 82885T SAS Expander Card offers 36 ports in a low-profile MD2 form factor with 28 internal ports for connection to a SAS controller and/or SAS or SATA drives and 8 external ports for optional connections to external JBODs or a SAS adapter.

FLEXIBILITY OF CONFIGURATION

The Adaptec 82885T SAS Expander Card mounts internally to any available PCle slot, away from the backplane, and features mini-SAS HD connectors out the top for added cabling flexibility in dense server environments. The 82885T enables a low cost drive expansion solution when mated with a RAID adapter or HBA. The expander draws power from the PCle slot (requires 4 or more lanes), but there is no data transfer to the slot. Alternatively, power can also be supplied to the expander card through a standard 4-pin auxiliary power connector.

UNIVERSAL COMPATIBILITY

The Adaptec 82885T SAS Expander Card is fully compatible with Adaptec Series 8, Series 7 and Series 6 RAID adapters and HBAs, allowing for a seamless integration and management within an end-to-end Adaptec solution. The 82885T is also compatible with 3rd party RAID adapters and HBAs and has also been tested for interoperability with a wide variety of SAS and SATA HDDs and SSDs.

ENCLOSURE MANAGEMENT SUPPORT

The Adaptec 82885T SAS Expander Card supports SGPIO and SES2 enclosure management, allowing enclosure information to be routed from all daisy-chained 82885T cards to the HBA or RAID adapter. All device and slot mapping information is provided to the HBA or RAID adapter by the last 82885T card in the chain.

ADAPTEC 82885T FEATURES

- Enables high-density storage within the server while maintaining a passive backplane
- Enables both internal and external connectivity
- Significantly lower power consumption than competing solutions
- Backwards compatible to 6Gb/s for legacy 6G SAS or SATA devices
- Support for SGPIO and SES2 enclosure management













SPECIFICATIONS

Benefits	Low cost solution ideal for density optimized servers requiring direct connectivity to up to 28 internal ports for a SAS adapter and/or SATA HDDs and SSDs. Supports 12Gb/s data rates and is backward compatible to 6Gb/s.	
Key Differentiators	 Up to 20 internal ports for direct attach drive connectivity 4 or 8 internal ports for connectivity to a RAID adapter or HBA 8 external ports for external storage expansion — Complete portfolio of mini-SAS HD cables available — Low-profile, MD2 form factor	
Customer Needs	High I/O transaction and high bandwidth processing; solutions that reduce energy consumption and maintenance costs; low-profile form factor	
Utilities	Adaptec maxView Storage Manager support	
Physical Dimensions	2.535"H x 6.6"L (64mm x 167mm)	
Operating Temperature	0°C to 55°C* (with 200 LFM airflow)	
Operating Current	1.34A @ 12 VDC	
Regulatory Certification	CE, FCC, UL, C-tick, VCCI, KCC, CNS	
Environmental Compliance	RoHS	
MTBF	1M hours at 40° C	
Warranty	3 years	

ADAPTEC 12GB/S SAS EXPANDER CARD	82885T
Order Part Number	2283400-R
Ports	28 Internal / 8 External
Connectors	7 x SFF-8643, 2 x SFF-8644
Form Factor	MD2 – Low Profile
PCIe Slot Power	Through PCIe x4 interface
Auxiliary Power Connector	Yes

Further Resources and Information: www.adaptec.com/en-us/support/sas/sas/aec-82885t/



ABOUT PMC-SIERRA

PMC (Nasdag: PMCS) is the semiconductor and software solutions innovator transforming networks that connect, move and store Big Data. Building on a track record of technology leadership, the company is driving innovation across storage, optical and mobile networks. PMC's highly integrated solutions increase performance and enable next-generation services to accelerate the network transformation.

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