

Adaptec® 82885T

12 Gbps 36-port SAS Expander Card

Scalable Storage Solutions for Data Centers

The 82885T SAS Expander Card offers 36 ports in a low-profile MD2 form factor with up to 24 internal ports for directattach drive connectivity, either four or eight* internal ports for connectivity to a RAID adapter or HBA, and eight external ports for connectivity to a RAID adapter, HBA or external storage expansion.



Flexible Configuration

The 82885T SAS Expander Card mounts internally to any available PCIe 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 PCIe slot (requires four 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 With Existing Storage Infrastructure

The 82885T SAS Expander Card is fully compatible with Adaptec® SmartRAID 3100 series, SmartHBA 2100 series, HBA 1100 series, HBA 1000 series, and Series 8, Series 7 and Series 6 RAID adapters and HBAs, allowing seamless integration and management within an end-to-end solution. The 82885T is also compatible with third-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 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.

Benefits

- Low-cost solution ideal for density-optimized servers requiring direct connectivity to up to 24 SAS and/or SATA HDDs and SSDs
- High I/O transaction and high bandwidth solution with up to eight internal or eight external ports for a RAID adapter or HBA
- High scalability with up to eight external ports for storage expansion to JBODs
- Supports 12 Gbps data rates and is backward compatible to 6 Gbps
- Low power consumption reduces energy consumption and maintenance costs
- Low-profile MD2 form factor

Highlights

- 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
- Backward compatible to 6 Gbps for legacy 6G SAS or SATA devices
- Support for SGPIO and SES2 enclosure management
- Up to 24 internal ports for direct-attach drive connectivity
- Up to 8 internal ports for connectivity to a RAID adapter or HBA
- 8 external ports for external storage expansion
- Adaptec maxView® Storage Manager
- Complete portfolio of mini-SAS HD cables available

*The use of eight internal ports for connectivity to a RAID adapter or HBA reduces the maximum number of ports available for drive connectivity to 20.

Order part number	2283400-R
Utilities	maxView Storage Manager support
Physical Dimensions	2.535" H x 6.6" L (64 mm x 167 mm)
Operating Temperature	0°C to 55°C (with 200 LFM airflow)
Operating Current	1.34 A at 12 VDC
Regulatory Certification	CE, FCC, UL, C-tick, VCCI, KCC, CNS
Environmental Compliance	RoHS
MTBF	1 million hours at 40°C
Warranty	3 years
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

For More Information

<https://www.microsemi.com/product-directory/storage/3707-sas-expander-cards>