M.2 2280/2242 SATA SSD ASD+S7T Series

M.2 2280/2242 SATA SSD for Industrial Embedded Applications

Features

- Advanced Flash Management including static and dynamic wear leveling, bad block management, TRIM, SMART, over-provision, and firmware update
- Low Power Management including DEVSLP mode (optional) and DIPM/HIPM mode
- Operating temperature range: up to -25°C to 85°C
- MTBF of more than 3,000,000 hours
- Vibration and shock resistance
- RoHS compliant



Introduction

ADLINK's industrial M.2 2280/2242 SATA SSD Series delivers all the advantages of today's flash disk technologies with SATA 6Gb/s interface, and is fully compliant with the standard M.2 2280 form factor. Capacities of 64GB to 2TB are available and read/write speeds of up to 550MB/s and 510MB/s respectively are supported.

Ordering Information

ASDSM8SHE-64GT0	M.2 2280 SSD ASD+S7T Series, BiCS5 3D TLC, 128GB, -25°C ~ 85°C
ASDSM8SHE-128GT0	M.2 2280 SSD ASD+S7T Series, BiCS5 3D TLC, 128GB, -25°C ~ 85°C
ASDSM8SHE-256GT0	M.2 2280 SSD ASD+S7T Series, BICS5 3D TLC, 256GB, -25°C ~ 85°C
ASDSM8SHE-512GT0	M.2 2280 SSD ASD+S7T Series, BICS5 3D TLC, 512GB, -25°C ~ 85°C
ASDSM8SHE-1TBT0	M.2 2280 SSD ASD+S7T Series, BICS5 3D TLC, 1TB, -25°C ~ 85°C
ASDSM8SHE-2TBT0	M.2 2280 SSD ASD+S7T Series, BICS5 3D TLC, 2TB, -25°C ~ 85°C

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Ordering Information

ASDSM8SHI-64GT0	M.2 2280 SSD ASD+S7T Series, BiCS5 3D TLC, 128GB, -40°C ~ 85°C
ASDSM8SHI-128GT0	M.2 2280 SSD ASD+S7T Series, BICS5 3D TLC, 128GB, -40°C ~ 85°C
ASDSM8SHI-256GT0	M.2 2280 SSD ASD+S7T Series, BICS5 3D TLC, 256GB, -40°C ~ 85°C
ASDSM8SHI-512GT0	M.2 2280 SSD ASD+S7T Series, BICS5 3D TLC, 512GB, -40°C ~ 85°C
ASDSM8SHI-1TBT0	M.2 2280 SSD ASD+S7T Series, BICS5 3D TLC, 1TB, -40°C ~ 85°C
ASDSM8SHI-2TBT0	M.2 2280 SSD ASD+S7T Series, BICS5 3D TLC, 2TB, -40°C ~ 85°C
ASDSM8SHE-32GP0	M.2 2280 SSD ASD+S7T Series, BiCS5 pSLC, 32GB, -25°C ~ 85°C
ASDSM8SHE-64GP0	M.2 2280 SSD ASD+S7T Series, BiCS5 pSLC, 64GB, -25°C ~ 85°C
ASDSM8SHE-128GP0	M.2 2280 SSD ASD+S7T Series, BiCS5 pSLC, 128GB, -25°C ~ 85°C
ASDSM8SHE-256GP0	M.2 2280 SSD ASD+S7T Series, BiCS5 pSLC, 256GB, -25°C ~ 85°C
ASDSM8SHE-512GP0	M.2 2280 SSD ASD+S7T Series, BiCS5 pSLC, 512GB, -25°C ~ 85°C
ASDSM8SHI-32GP0	M.2 2280 SSD ASD+S7T Series, BiCS5 pSLC, 32GB, -40°C ~ 85°C
ASDSM8SHI-64GP0	M.2 2280 SSD ASD+S7T Series, BiCS5 pSLC, 64GB, -40°C ~ 85°C
ASDSM8SHI-128GP0	M.2 2280 SSD ASD+S7T Series, BiCS5 pSLC, 128GB, -40°C ~ 85°C
ASDSM8SHI-256GP0	M.2 2280 SSD ASD+S7T Series, BiCS5 pSLC, 256GB, -40°C ~ 85°C
ASDSM8SHI-512GP0	M.2 2280 SSD ASD+S7T Series, BiCS5 pSLC, 512GB, -40°C ~ 85°C
ASDSM4SHE-64GT0	M.2 2242 SSD ASD+S7T Series, BiCS5 TLC, 64GB, -25°C ~ 85°C
ASDSM4SHE-128GT0	M.2 2242 SSD ASD+S7T Series, BiCS5 TLC, 128GB, -25°C ~ 85°C
ASDSM4SHE-256GT0	M.2 2242 SSD ASD+S7T Series, BiCS5 TLC, 256GB, -25°C ~ 85°C
ASDSM4SHE-512GT0	M.2 2242 SSD ASD+S7T Series, BiCS5 TLC, 512GB, -25°C ~ 85°C
ASDSM4SHE-1TBT0	M.2 2242 SSD ASD+S7T Series, BiCS5 TLC, 1TB, -25°C ~ 85°C
ASDSM4SHI-64GT0	M.2 2242 SSD ASD+S7T Series, BiCS5 TLC, 64GB, -40°C ~ 85°C
ASDSM4SHI-128GT0	M.2 2242 SSD ASD+S7T Series, BiCS5 TLC, 128GB, -40°C ~ 85°C
ASDSM4SHI-256GT0	M.2 2242 SSD ASD+S7T Series, BiCS5 TLC, 256GB, -40°C ~ 85°C
ASDSM4SHI-512GT0	M.2 2242 SSD ASD+S7T Series, BiCS5 TLC, 512GB, -40°C ~ 85°C
ASDSM4SHI-1TBT0	M.2 2242 SSD ASD+S7T Series, BiCS5 TLC, 1TB, -40°C ~ 85°C

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Specifications

Model		M.2 2280/2242 SSD ASD+S7T Series		
Capacity[1]		64GB to 1TB	64GB to 2TB	32GB to 512GB
Form Factor		NGFF B+M Key 42mm(L) x 22mm(W) x 3.8mm(H	NGFF B+M Key 80mm(L) x 22mm(W) x 3.8mm(H)	
PCIe Interface		SATA Revision 3.1 SATA 1.5Gb/s, 3Gb/s, and 6Gb/s interface		
Flash Type		BiCS5 3D TLC		BiCS5 p-SLC
Performance[4]		Read: up to 550 MB/s Write: up to 510 MB/s Random 4K Read: > 36,500 IOPS Random 4K Write: > 57,500 IOPS		Read: up to 550 MB/s Write: up to 510 MB/s Random 4K Read: > 49,500 IOPS Random 4K Write: > 78,500 IOPS
Power Consumption		Active mode: <=1750mW Idle mode: <=210mW		Active mode: <=1350mW Idle mode: <=175mW
MTBF		More than 3,000,000 hours		
Advanced Flash Management		Advanced Wear Leveling Bad Block Management TRIM S.M.A.R.T Over Provision Firmware Update		
Low Power Management		DEVSLP Mode (Optional) DIPM/HIPM Mode		
Temperature Range[2]	Operating[3]	-25°C to 85°C		
	Storage	-40°C to 85°C		
Environment		Vibration: 20Hz to 80Hz / 1.52mm 80Hz to 2000Hz / 20Gp-p Shock (operation/non-operating): 1500G @0.5ms		
RoHS compliant		Yes		

Notes:

1.Other capacities may be supported in the future.

2.As measured by SMART temperature. Active airflow is recommended within the system for maintaining proper device operating temperature on heavier workloads.

3.Actual operating temperature specification may vary by model.

4.Performance benchmarked by CrystalDiskMark.

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