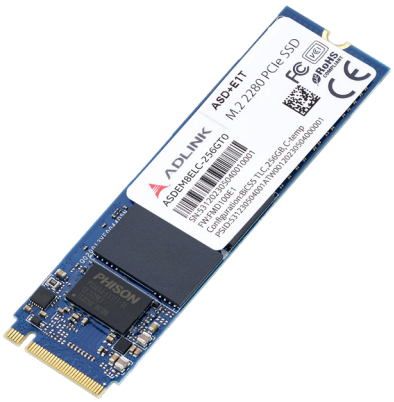
ADLINK
LEADING EDGE AI COMPUTING

M.2 2280/2242/2230 PCIe SSD ASD+E1T Series

M.2 2280/2242/2230 PCIe 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
- TCG OPAL 2.0 with Physical Presence SID (PSID)
- Operating temperature range:
  C-grade 0°C to 70°C
  I-grade -40°C to 85°C
- MTBF of more than 1,500,000 hours
- Vibration and shock resistance
- RoHS compliant



Introduction

ADLINK's industrial M.2 2280/2242/2230 PCIe SSD Series delivers all the advantages of today's flash disk technologies with PCIe Gen4x4 interface, and is fully compliant with the standard M.2 2280/2242/2230 form factor. Capacities of 256GB to 2TB are available and read/write speeds of up to 4900MB/s and 3700MB/s respectively are supported

Ordering Information

ASDEM8ELC-256GT0	M.2 2280 PCIe SSD ASD+E1T Series, BiCS5 3D TLC, 256GB, 0°C to 70°C
ASDEM8ELC-512GT0	M.2 2280 PCIe SSD ASD+E1T Series, BiCS5 3D TLC, 512GB, 0°C to 70°C
ASDEM8ELC-1TBT0	M.2 2280 PCIe SSD ASD+E1T Series, BiCS5 3D TLC, 1TB, 0°C to 70°C
ASDEM8ELC-2TBT0	M.2 2280 PCIe SSD ASD+E1T Series, BiCS5 3D TLC, 2TB, 0°C to 70°C
ASDEM4ELC-128GT0	M.2 2242 PCIe SSD ASD+E1T Series, BiCS5 3D TLC, 128GB, 0°C to 70°C
ASDEM4ELC-256GT0	M.2 2242 PCIe SSD ASD+E1T Series, BiCS5 3D TLC, 256GB, 0°C to 70°C
ASDEM4ELC-512GT0	M.2 2242 PCIe SSD ASD+E1T Series, BiCS5 3D TLC, 512GB, 0°C to 70°C
ASDEM4ELC-1TBT0	M.2 2242 PCIe SSD ASD+E1T Series, BiCS5 3D TLC, 1TB, 0°C to 70°C
ASDEM4ELC-2TBT0	M.2 2242 PCIe SSD ASD+E1T Series, BiCS5 3D TLC, 2TB, 0°C to 70°C
ASDEM3ELC-256GT0	M.2 2230 PCIe SSD ASD+E1T Series, BiCS5 3D TLC, 256GB, 0°C to 70°C
ASDEM3ELC-512GT0	M.2 2230 PCIe SSD ASD+E1T Series, BiCS5 3D TLC, 512GB, 0°C to 70°C

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Ordering Information

ASDEM8ELI-256GT0	M.2 2280 PCIe SSD ASD+E1T Series, BiCS5 3D TLC, 256GB, -40°C to 85°C
ASDEM8ELI-512GT0	M.2 2280 PCIe SSD ASD+E1T Series, BiCS5 3D TLC, 512GB, -40°C to 85°C
ASDEM8ELI-1TBT0	M.2 2280 PCIe SSD ASD+E1T Series, BiCS5 3D TLC, 1TB, -40°C to 85°C
ASDEM8ELI-2TBT0	M.2 2280 PCIe SSD ASD+E1T Series, BiCS5 3D TLC, 2TB, -40°C to 85°C
ASDEM4ELI-128GT0	M.2 2242 PCIe SSD ASD+E1T Series, BiCS5 3D TLC, 128GB, -40°C to 85°C
ASDEM4ELI-256GT0	M.2 2242 PCIe SSD ASD+E1T Series, BiCS5 3D TLC, 256GB, -40°C to 85°C
ASDEM4ELI-512GT0	M.2 2242 PCIe SSD ASD+E1T Series, BiCS5 3D TLC, 512GB, -40°C to 85°C
ASDEM4ELI-1TBT0	M.2 2242 PCIe SSD ASD+E1T Series, BiCS5 3D TLC, 1TB, -40°C to 85°C
ASDEM4ELI-2TBT0	M.2 2242 PCIe SSD ASD+E1T Series, BiCS5 3D TLC, 2TB, -40°C to 85°C
ASDEM3ELI-256GT0	M.2 2230 PCIe SSD ASD+E1T Series, BiCS5 3D TLC, 256GB, -40°C to 85°C
ASDEM3ELI-512GT0	M.2 2230 PCIe SSD ASD+E1T Series, BiCS5 3D TLC, 512GB, -40°C to 85°C

Specifications

Model		ASD+ E1T Series		
Capacity[1]		256GB to 2TB	128GB to 2TB	256GB to 512GB
Form Factor		M.2 2280 M Key 80mm(L) x 22mm(W) x 2.15mm(H)	M.2 2242 M Key 42mm(L) x 22mm(W) x 2.15mm(H)	M.2 2230 M Key 30mm(L) x 22mm(W) x 2.15mm(H)
PCIe Interface		PCIe Gen4 x4 PCI Express Base 4.0 NVMe 1.4		
Flash Type		BiCS5 3D TLC		
Performance[4]		Read: up to 4900 MB/s Write: up to 3700 MB/s Random 4K Read: > 700K IOPS Random 4K Write:> 900K IOPS		
Power Consumption		Active mode: <=4500mW Idle mode: <=1500mW		
MTBF		More than 1,500,000 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]	0°C to 70°C / 40°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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