M.2 PCIe Enterprise SSD ASD+EDC18 Series

M.2 2280/22110 PCIe SSD for Enterprise 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: 0°C to 70°C
- MTBF of more than 2,000,000 hours
- Vibration and shock resistance
- RoHS compliant

Introduction

ADLINK's industrial M.2 2280/22110 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 2280/22110 form factor. Capacities of 256GB to 4TB are available and read/write speeds of up to 5500MB/s and 2000MB/s respectively are supported.

Ordering Information

ASDXEM8ECC-480GTF	M.2 2280 PCIe SSD ASD+EDC18 Series, BiCS5 3D TLC, 480GB, 0°C to 70°C
ASDXEM8ECC-960GTF	M.2 2280 PCIe SSD ASD+EDC18 Series, BiCS5 3D TLC, 960GB, 0°C to 70°C
ASDXEM8ECC-2TBTF	M.2 2280 PCIe SSD ASD+EDC18 Series, BiCS5 3D TLC, 2TB, 0°C to 70°C
ASDXEM1EIE-4TBTF	M.2 22110 PCIe SSD ASD+EDC18 Series, BiCS5 3D TLC, 4TB, 0°C to 70°C

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Specifications

Model		ASD+ EDC18 Series	
Capacity[1]		480GB to 2TB	4TB
Form Factor		M.2 2280 M Key 80mm(L) x 22mm(W) x 2.15mm(H)	M.2 22110 M Key 110mm(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	
Performance4		Read: up to 5500 MB/s Write: up to 2000 MB/s Random 4K Read: > 800K IOPS Random 4K Write:> 58K IOPS	Read: up to 2200 MB/s Write: up to 1400 MB/s Random 4K Read: > 150K IOPS Random 4K Write:> 32K IOPS
Power Consumption		Active mode: < 11W Idle mode: < 4.2W	
MTBF		More than 2,000,000 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]	0°C to 70°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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