

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

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	
Performance ⁴		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.