

U.2 PCIe Enterprise SSD ASD+EDCP1 Series

U.2 PCIe Gen4 x4 SSD for Enterprise Applications



Features

- Advanced Flash Management including static and dynamic wear leveling, bad block management, TRIM, SMART, over-provision, and firmware update
- Thermal Throttling to keep the optimal performance in the safe range of the temperature
- TCG OPAL 2.0 with Physical Presence SID (PSID)
- Operating temperature range: 0°C ~ 70°C
- MTBF of more than 2,500,000 hours
- Hardware Power Loss Protection (HW PLP)
- Vibration and shock resistance
- RoHS compliant

Introduction

ADLINK's enterprise U.2 PCIe SSD Series delivers all the advantages of today's flash disk technologies with PCIe Gen4 x4 interface, and is fully compliant with the standard U.2 (SFF-8639) form factor. Capacities of 800GB to 30720GB are available and read/write speeds of up to 7,000 MB/s and 6,800 MB/s respectively are supported.

Ordering Information

ASDXU25PMC-2TBTF	U.2 PCIe SSD ASD+EDCP1 Series, BiCS5 3D TLC, 1 DWPD, 2TB, 0°C ~ 70°C
ASDXU25PMC-4TBTF	U.2 PCIe SSD ASD+EDCP1 Series, BiCS5 3D TLC, 1 DWPD, 4TB, 0°C ~ 70°C
ASDXU25PMC-8TBTF	U.2 PCIe SSD ASD+EDCP1 Series, BiCS5 3D TLC, 1 DWPD, 8TB, 0°C ~ 70°C
ASDXU25PMC-16TBTF	U.2 PCIe SSD ASD+EDCP1 Series, BiCS5 3D TLC, 1 DWPD, 16TB, 0°C ~ 70°C
ASDXU25PMC-32TBTF	U.2 PCIe SSD ASD+EDCP1 Series, BiCS5 3D TLC, 1 DWPD, 32TB, 0°C ~ 70°C
ASDXU25PWC-800GBTF	U.2 PCIe SSD ASD+EDCP1 Series, BiCS5 3D TLC, 3 DWPD, 800GB, 0°C ~ 70°C
ASDXU25PWC-1600GBTF	U.2 PCIe SSD ASD+EDCP1 Series, BiCS5 3D TLC, 3 DWPD, 1.6TB, 0°C ~ 70°C
ASDXU25PWC-3200GBTF	U.2 PCIe SSD ASD+EDCP1 Series, BiCS5 3D TLC, 3 DWPD, 3.2TB, 0°C ~ 70°C
ASDXU25PWC-6400GBTF	U.2 PCIe SSD ASD+EDCP1 Series, BiCS5 3D TLC, 3 DWPD, 6.4TB, 0°C ~ 70°C
ASDXU25PWC-12TBTF	U.2 PCIe SSD ASD+EDCP1 Series, BiCS5 3D TLC, 3 DWPD, 12.8TB, 0°C ~ 70°C
ASDXU25PWC-25TBTF	U.2 PCIe SSD ASD+EDCP1 Series, BiCS5 3D TLC, 3 DWPD, 25.6TB, 0°C ~ 70°C

Specifications

Model		ASD+EDCP1 Series	
Capacity ¹		1920, 3840, 7680, 15360, 30720GB	800, 1600, 3200, 6400, 12800, 25600GB
Form Factor		U.2 (SFF-8639) 100.00mm(L) x 69.85mm(W) x 7.00mm(H)	
PCIe Interface		PCIe Gen4 x4 PCI Express Base 4.0 NVMe 1.4	
Flash Type		BiCS5 3D TLC	
Performance ⁴		Read: up to 7,800 MB/s Write: up to 6,800 MB/s Random 4K Read: up to 1,600K IOPS Random 4K Write: up to 480K IOPS	
Power Consumption		Active mode: < 25W Idle mode: < 6W/8W (16T)	
MTBF		More than 2,500,000 hours	
DWPD		1	3
Advanced Flash Management		Advanced Wear Leveling Bad Block Management TRIM S.M.A.R.T Over Provision Firmware Update	
Advanced Device Security		Secure Erase Crypto Erase Physical Presence SID (PSID)	
Temperature Range ²	Operating ³	0°C ~ 70°C with specified airflow	
	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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