# 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 |



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## 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<br>NVMe 1.4 | |
| Flash Type | | BiCS5 3D TLC | |
| Performance4 | | Read: up to 7,800 MB/s Write: up to 6,800 MB/s<br>Random 4K Read: up to 1,600K IOPS<br>Random 4K Write: up to 480K IOPS | |
| Power Consumption | | Active mode: < 25W<br>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<br>S.M.A.R.T<br>Over Provision Firmware Update | |
| Advanced Device Security | | Secure Erase Crypto Erase<br>Physical Presence SID (PSID) | |
| Temperature Range[2] | Operating[3] | 0°C ~ 70°C with specified airflow | |
| | Storage | -40°C to 85°C | |
| Environment | | Vibration:<br>20Hz to 80Hz / 1.52mm 80Hz to 2000Hz / 20Gp-p<br>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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