2.5” SATA Enterprise SSD
ASD+SDC12 Series

2.5” SATA 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 to 70°C
- MTBF of more than 1,500,000 hours
- Vibration and shock resistance
- RoHS compliant

Introduction

ADLINK’s enterprise 2.5” SATA SSD Series delivers all the advantages of today’s flash disk technologies with SATA 6Gb/s interface, and is fully compliant with the standard 2.5” 7mm form factor.

Capacities of 480GB to 7680GB are available and read/write speeds of up to 530 MB/s and 500 MB/s respectively are support.

Ordering Information

ASDXS25SMC-480GTF	2.5” SSD ASD+SDC12 Series, BiCS5 3D TLC, 1 DWPD, 480GB, 0°C to 70°C
ASDXS25SMC-960GTF	2.5” SSD ASD+SDC12 Series, BiCS5 3D TLC, 1 DWPD, 960GB, 0°C to 70°C
ASDXS25SMC-1920TF	2.5” SSD ASD+SDC12 Series, BiCS5 3D TLC, 1 DWPD, 1920GB, 0°C to 70°C
ASDXS25SMC-3840TF	2.5” SSD ASD+SDC12 Series, BiCS5 3D TLC, 1 DWPD, 3840GB, 0°C to 70°C
ASDXS25SMC-7680TF	2.5” SSD ASD+SDC12 Series, BiCS5 3D TLC, 1 DWPD, 7680GB, 0°C to 70°C

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Specifications

Model		ASD+SDC12 Series
Capacity[1]		480, 920, 1920, 3840, 7680GB
Form Factor		2.5” SATA 100.00mm(L) x69.85mm(W)x 7.00mm(H)
SATA Interface		SATA Revision 3.2 SATA 1.5Gb/s, 3Gb/s, and 6Gb/s interface
Flash Type		BiCS5 3D TLC
Performance[2]		Read: up to 530 MB/s Write: up to 500 MB/s Random 4K Read: up to 98K IOPS Random 4K Write: up to 50K IOPS
Power Consumption		Active mode: < 3.8W Idle mode: < 1.6W
MTBF		More than 1,500,000 hours
DWPD		1
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[3]	Operating[4]	0°C to 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.Performance benchmarked by CrystalDiskMark.
3.As measured by SMART temperature. Active airflow is recommended within the system for maintaining proper device operating temperature on heavier workloads.
4.Actual operating temperature specification may vary by model.

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