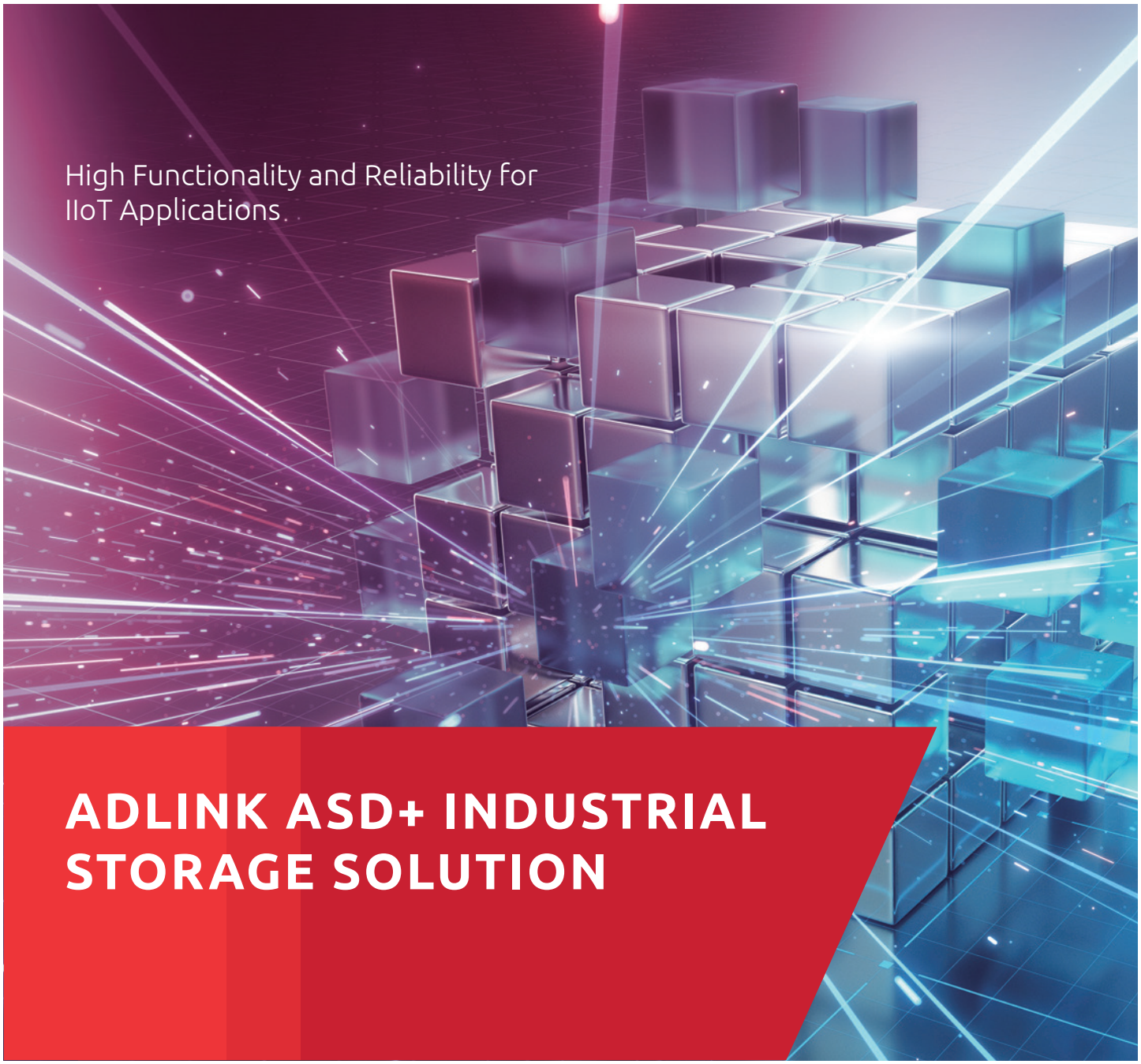
ADLINK
LEADING EDGE COMPUTING



ADLINK ASD+ INDUSTRIAL STORAGE SOLUTION

Product Brochure



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ADLINK ASD+

Optimized for Industrial Applications

Embedded flash storage solutions by ADLINK are fully compliant with standard form factors and deliver all the advantages of flash disk technology. This includes benefits such as high transfer speeds, light weight, lower power consumption than traditional hard drives, and a wide operating temperature range that allows sustained functionality and reliability in extreme ambient temperatures.

Reliable & Secure

Customization



- U.2 NVMe
- PCIe
- M.2 SATA
- 2.5" SATA

Longevity

Industrial Grade





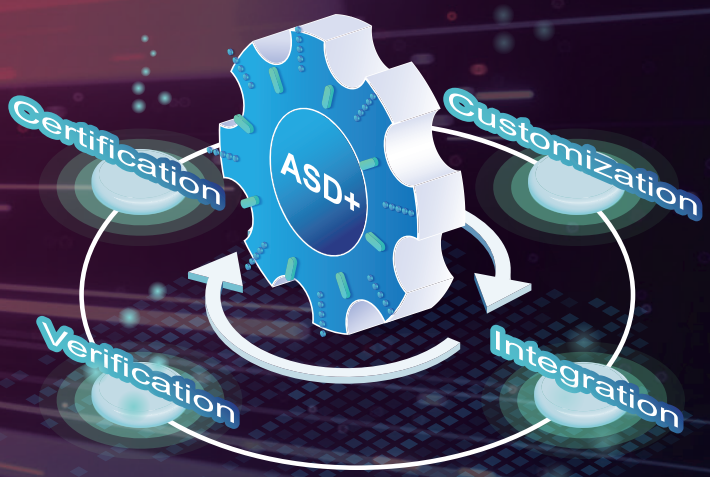
Security Features

- FIPS certified
- TCG-OPAL compliant
- Secure Erase and Crypto Erase
- Write Protection

Flash Optimization

- Garbage Collection and TRIM
- Advanced Wear Leveling to increase life cycle
- Bad Block Management
- Over Provision for enhanced performance





Power Failure Protection

- Comprehensive protection ensures data integrity
- Built-in voltage stabilizer for internal power supply
- Reliable startup power sequence

Flexible Customization Service

- Time to market design-in service
- Early access to the latest Flash technology
- 3-year warranty

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Designed for Diverse Applications

ASD+ provides many SSD options from write-intensive for enterprise to read-intensive for HMI and client applications, with different temperature ranges and form factors, fulfilling demands for a variety of applications.

0~70 °C -20~85 °C -40~85 °C

	Regular Performance	Premium Performance
PCIe	E3T (M.2) 	E2D (U.2) 
SATA	S7T (2.5" & M.2) 	S2D (2.5") 

Provides customization of CF, PATA SSD, SD, Micro SD, eMMC, BGA SSD (with MOQ)



Military / Surveillance (AI)

- Write intensive > 50%
- High performance & endurance
- Lower latency



Gaming / Medical

- Read intensive > 80%
- Read random IOPS
- Lower latency



Signage / Retail

- Read intensive > 95%
- Read random IOPS
- High capacity

p-SLC — TLC

Write Intensive — Read Intensive



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Selection Guide







Model Name	S7T		S2D	E3T	E2D
Form Factor	2.5" SSD	M.2 2280 B+M Key	2.5" SSD	M.2 2280/2242 M Key	U.2 SSD
Interface	SATA Gen3 / Gen2 / Gen1	SATA Gen3 / Gen2 / Gen1	SATA Gen3 / Gen2 / Gen1	PCIe Gen3 x4 NVMe 1.3d	PCIe Gen3 x4 NVMe 1.3d
Flash Type	3D-TLC/p-SLC	3D-TLC/p-SLC	3D-TLC/p-SLC	3D-TLC/p-SLC	3D-TLC
Capacity	3D TLC: 128GB ~ 2 TB p-SLC: 32GB ~ 512GB	3D TLC: 128GB ~ 2 TB p-SLC: 32GB ~ 512GB	3D TLC: 2TB ~ 8TB p-SLC: 64GB ~ 2TB	3D TLC: 128GB ~ 2TB pSLC: 32GB ~ 512GB	480GB ~ 8TB
Cache Memory	DRAM-less	DRAM-less	DDR4	DRAM-less	DDR4
4K Random R/W	44,500/78,500 IOPS	49,500/78,500 IOPS	98,000/88,000 IOPS	270,000/420,000 IOPS	600,000/200,000 IOPS
Sequential R/W	550/510 MB/s	550/510 MB/s	520/510 MB/s	2450/1900 MB/s	3300/1000 MB/s
Reliability (MTBF)	More than 3M hrs	More than 2M hrs	More than 3M hrs	More than 2M hrs	More than 2M hrs
Reliability (DWPD)	3D TLC > 0.64 p-SLC > 44	3D TLC > 0.64 p-SLC > 28	3D TLC > 0.64 p-SLC > 44	3D TLC > 0.7 p-SLC > 28	3D TLC > 1.5
Temperature	E-grade: -25°C to 85°C I-grade: -40°C ~ 85°C	E-grade: -25°C to 85°C I-grade: -40°C ~ 85°C	C-grade: 0°C to 70°C I-grade: -40°C ~ 85°C	E-grade: -25°C to 85°C I-grade: -40°C ~ 85°C	C-grade: 0°C to 70°C I-grade: -40°C ~ 85°C
Warranty	3 Years	3 Years	3 Years	3 Years	3 Years

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