ADATA Industrial & Enterprise Solutions
2.5" SATA SSD

ADATA 2.5" SATA III (6Gbps) Solid State Drives (SSD) feature the best quality hardware components and come with the most comprehensive internal support software, making the device compliant with JEDEC specifications. The low-power design of the product is intended for industrial applications and takes advantage of ADATA's proprietary A+ Testing Methodology, ensuring that the drives meet the exacting requirements of industrial applications. As for SSD quality, compatibility and reliability, ADATA has developed its own SSD Validation mechanism for functionality testing and reliability validation. The strict quality controls provide industrial systems with the best choice for reliability. ADATA Toolbox provides SSD management S.M.A.R.T and system optimization, which helps optimize industrial systems.

Key Features

- Industry standard 2.5" with 7mm height form-factor
- High reliability, high performance
- High-speed SLC/MLC NAND Flash
- S.M.A.R.T. function
- H/W Power Detector and Flash Protection
- Flash Management
- Power Loss Protection (PLP)
- A+ SLC Support
- Write Protection
- Quick Erase function

Target Applications

System Boot Device, Communication Appliance, Data Logger, Automation Solutions, Industry Embedded Systems, Transportation

	Wide Temperature	ESD and EMI Safe	Shock and Vibration Resistant	Lifetime Monitoring (LTM)	Secure Erase (Sanitize/ Purge/Fast Erase)	Temperature Sensor	Power Fail Protection & Recovery	Wear Leveling	Read-only Optimized	TRIM	Low Power Consumption
ISSS312	●	●	●	●	▲	●	▲	●	▲	●	●

● Supported   ▲ By Request

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Specifications

Model	ISSS312	
Interface	SATA 22PIN	SATA 22PIN
Capacity	8GB~64GB	16GB~256GB
Operating Voltage	5V	5V
Flash Type	SLC	MLC
Sequential Read (Max.)	Up to 500MB/s	Up to 500MB/s
Sequential Write (Max.)	Up to 350MB/s	Up to 200MB/s
Data Transfer Mode	SATA III 6.0Gbps	SATA III 6.0Gbps
Operating Temperature	Commercial: 0 ^{o}C to +70 ^{o}C Industrial: -40 ^{o}C to +85 ^{o}C	Commercial: 0 ^{o}C to +70 ^{o}C Industrial: -40 ^{o}C to +85 ^{o}C
Operating Humidity	5%~95% RH non-condensing	5%~95% RH non-condensing
Power Consumption	2W	2W
Vibration	20G (80~2000Hz)	20G (80~2000Hz)
Shock	1500G/0.5ms, Half Sine Wave	1500G/0.5ms, Half Sine Wave
MTBF	>2,000,000 hours	>1,000,000 hours
Dimensions (L x W x H /T)	100 x 70 x 7(mm)	100 x 70 x 7(mm)
SMART	Supported	Supported

Ordering Information

Capacity	SLC with PLP 0°C to 70°C	SLC with PLP -40°C to 85°C
8GB	ISSS312-008GFP	ISSS312-008GWP
16GB	ISSS312-016GFP	ISSS312-016GWP
32GB	ISSS312-032GFP	ISSS312-032GWP
64GB	ISSS312-064GFP	ISSS312-064GWP

Capacity	MLC with PLP 0°C to 70°C	MLC with PLP -40°C to 85°C	MLC non-PLP 0°C to 70°C
16GB	ISSS312-016GMP	ISSS312-016GTP	ISSS312-016GM
32GB	ISSS312-032GMP	ISSS312-032GTP	ISSS312-032GM
64GB	ISSS312-064GMP	ISSS312-064GTP	ISSS312-064GM
128GB	ISSS312-128GMP	ISSS312-128GTP	ISSS312-128GM
256GB	ISSS312-256GMP	ISSS312-256GTP	N/A

Dimensions

$7.0^{+0.6}_{-0.2}$

Max.100.45mm
CONNECTION PROTRUSION NOT INCLUDED

69.85±0.25