

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



2.5" SATA SSD



Specifications

Model	ISSS312	
Interface	SATA 22PIN	SATA 22PIN
Capacity	8GB~128GB	8GB~256GB
Operating Voltage	5V	5V
Flash Type	SLC	MLC
Sequential Read (Max.)	Up to 530MB	Up to 530MB
Sequential Write (Max.)	Up to 500MB	Up to 250MB
Data Transfer Mode	SATA III 6.0Gbps	SATA III 6.0Gbps
Operating Temperature	Commercial: 0°C to +70 °C Industrial: -40 °C to +85 °C	Commercial: 0 °C to +70 °C Industrial: -40 °C to +85 °C
Operating Humidity	5%~95% RH non-condensing	5%~95% RH non-condensing
Power Consumption	2W	2W
Vibration	2,000,000hours	1,000,000hours
Shock	20G (80~2000Hz)	20G (80~2000Hz)
MTBF	1500G/0.5ms, Half Sine Wave	1500G/0.5ms, Half Sine Wave
Dimensions (LxWxH/T)	100x70x7(mm)	100x70x7(mm)
SMART	Supported	Supported

Ordering Information

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	MLC non-PLP -40°C to 85°C
16GB	ISSS312-016GMP	ISSS312-016GTP	ISSS312-016GM	ISSS312-016GT
32GB	ISSS312-032GMP	ISSS312-032GTP	ISSS312-032GM	ISSS312-032GT
64GB	ISSS312-064GMP	ISSS312-064GTP	ISSS312-064GM	ISSS312-064GT
128GB	ISSS312-128GMP	ISSS312-128GTP	ISSS312-128GM	ISSS312-128GT
Capacity	SLC with PLP 0°C to 70°C	SLC with PLP -40°C to 85°C	SLC non-PLP 0°C to 70°C	SLC non-PLP -40°C to 85°C
16GB	ISSS312-016GFP	ISSS312-016GWP	ISSS312-016GF	ISSS312-016GW
32GB	ISSS312-032GFP	ISSS312-032GWP	ISSS312-032GF	ISSS312-032GW
64GB	ISSS312-064GFP	ISSS312-064GWP	ISSS312-064GF	ISSS312-064GW
128GB	ISSS312-128GFP	ISSS312-128GWP	ISSS312-128GF	ISSS312-128GW

Dimensions

