ADATA Industrial & Embedded Solutions
2.5-inch SSD

ADATA ISSS316 industrial-grade 2.5" solid-state drives (SSD) implement 3D NAND Flash for excellent read/write speeds of up to 550/520MB per second, and come in capacities ranging from 32GB to 1TB. They are ideally suited for industrial computing, embedded applications, gaming, surveillance, healthcare, defense, and general automation. With support for LDPC (Low-Density Parity-Check) error correcting code technology, ISSS316 SSDs can detect and fix errors to ensure data integrity and thus enjoy an extended lifespan. What's more, they take full advantage of ADATA's proprietary A$^+$ Testing Methodology, which encompasses Functionality Testing and Reliability Validation. This guarantees the drives meet the exacting requirements of industrial and enterprise applications.

Key Features

- Wide range of capacities from 32GB to 1TB

- P/E Cycle upgrade to 3K – improved endurance and reliability

- 3D NAND Flash for higher capacity, durability and power efficiency

- Low power consumption: 1.79W

- Supports DEVSLP, LDPC ECC and Wear Leveling

- Supports S.M.A.R.T., NCQ and TRIM Command

Target Applications

Transportation, Personal Computing, Server, Networking, Medical, Aerospace, Military

30μ Golden Finger	Anti-Sulfur Resistor	Conformal Coating	Wide Temperature	EDS & EMI Safe	Shock & Vibration Resistant	Lifetime Monitoring (LTM)	Wear Leveling	Secure Erase	TRIM	Low Power Consumption
●	—	—	●	●	●	●	●	●	●	●

● Supported   — Not available

Specifications

Model	ISSS316
Interface	SATA III
Form Factor	2.5-inch
Dimensions (L x W x H)	100.25 x 69.85 x 7mm
Flash Type	3D TLC
Capacity	32GB – 1TB
Sequential Read (Max.)	550MB/s
Sequential Write (Max.)	520MB/s
Operating Temperature (Commercial)	0°C to 70°C
Operating Temperature (Industrial)	-40°C to 85°C
Operating Voltage	5V
Operating Humidity	5%-95% RH non-condensing
Power Consumption (Max.)	1.79W
MTBF (Est.)	>2,000,000 hours
Shock Resistance	1500G/0.5ms, Half Sine Wave
Vibration Resistance	20G (10-2000Hz)
Technologies	LDPC ECC, DEVSLP, S.M.A.R.T., NCQ and TRIM Command

Ordering Information

Capacity	Commercial (0°C to 70°C)	Industrial (-40°C to 85°C)
32GB	ISSS316-032GD	ISSS316-032GP
64GB	ISSS316-064GD	ISSS316-064GP
128GB	ISSS316-128GD	ISSS316-128GP
256GB	ISSS316-256GD	ISSS316-256GP
512GB	ISSS316-512GD	ISSS316-512GP
1TB	ISSS333-001TD	ISSS333-001TP

Dimensions
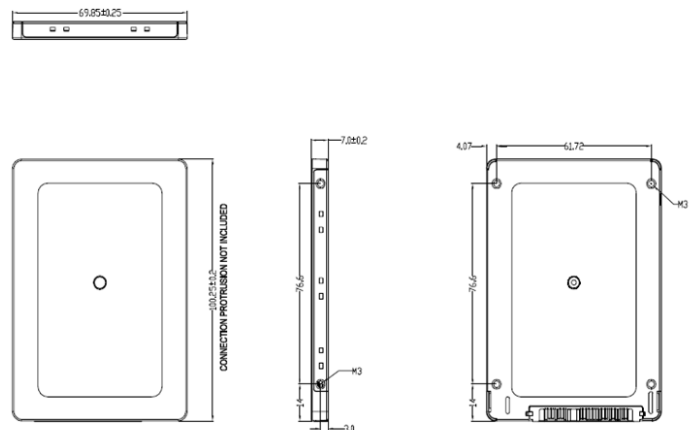
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