



## ADATA Industrial & Embedded Solutions

# 2.5-inch SSD

ISSS333 3D TLC PLP solid state drives implement 3D NAND Flash and the SATA III 6GB/s interface for superb transfer rates up to 560/520MB per second. What's more, with PLP (Power Loss Protection) these SSDs guard against data loss when a sudden power failure occurs, and also uses polymer capacitors with short circuit protection mechanism. They also feature wide temperature resistance, and compatibility across diverse storage applications. With support for LDPC (Low-Density Parity-Check) error correcting code technology, ISSS333 3D TLC PLP SSDs can detect and fix errors to ensure data integrity and thus enjoyed extended lifespans. The solid state drives are purpose-made for car-mounted system, base station, transportation, aerospace, defense applications, surveillance systems. To ensure SSD quality, compatibility, and reliability, all ISSS333 3D TLC PLP SSDs undergo ADATA's SSD validation process, covering functionality testing and reliability validation.

### Key Features

- Power Loss Protection (PLP)
- Polymer capacitors with short circuit protection mechanism
- Large capacity up to 2TB
- P/E Cycle upgrade to 3K – improved endurance and reliability
- 3D NAND Flash for higher capacity, durability and power efficiency
- Low power consumption: 2.3W
- Supports DEVSLP, SLC Cache, and DRAM Buffer
- Supports LDPC ECC, S.M.A.R.T., Wear Leveling, NCQ and TRIM Command



### Target Applications

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	ISSS333 PLP
Interface	SATA III
Form Factor	2.5-inch
Dimensions (L x W x H)	100 x 70 x 7mm
Flash Type	3D TLC
Capacity	64GB – 2TB
Sequential Read (Max.)	560MB/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.)	2.3W
MTBF (Est.)	>2,000,000 hours
Shock Resistance	1500G/0.5ms, Half Sine Wave
Vibration Resistance	20G (10-2000Hz)
Technologies	PLP (Power Loss Protection) LDPC ECC, DEVSLP, SLC Cache, DRAM Buffer, NCQ and TRIM Command

## Ordering Information

Capacity	Commercial (0°C to 70°C)	Industrial (-40°C to 85°C)
64GB	ISSS333-064GDP	ISSS333-064GPP
128GB	ISSS333-128GDP	ISSS333-128GPP
256GB	ISSS333-256GDP	ISSS333-256GPP
512GB	ISSS333-512GDP	ISSS333-512GPP
1TB	ISSS333-001TDP	ISSS333-001TPP
2TB	ISSS333-002TDP	ISSS333-002TPP

## Dimensions

