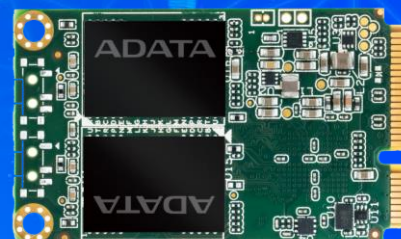


## mSATA SSD

### IMSS316



The ADATA IMSS316 mSATA SSD is equipped with 64-layer 3D TLC (BiCS3) NAND flash for excellent read/write performance and high capacities. Its 3K P/E cycle rating ensures long-lasting durability. What's more, with LDPC ECC error correction and RAID Engine, the IMSS316 ensures data accuracy and integrity. The SSD comes in a range of capacities for different requirements. Customers can also benefit from ADATA's proprietary A+ SSDTOOL software for easy management and real-time monitoring of ADATA SSDs. The IMSS316 is ideal for automation, embedded system, networking, healthcare and transportation applications.

### Features

- 64-layer 3D TLC (BiCS3) NAND flash for high capacities and efficiency
- 3K P/E cycle rating for excellent durability and reliability
- Wide temperature support: -40°C to 85°C
- LDPC ECC (error correction) technology
- Supports RAID Engine and SLC Cache
- Thermal Throttling automatically adjusts temperatures for prolonged product lifespan
- Suitable for automation, embedded system, networking, healthcare and transportation applications

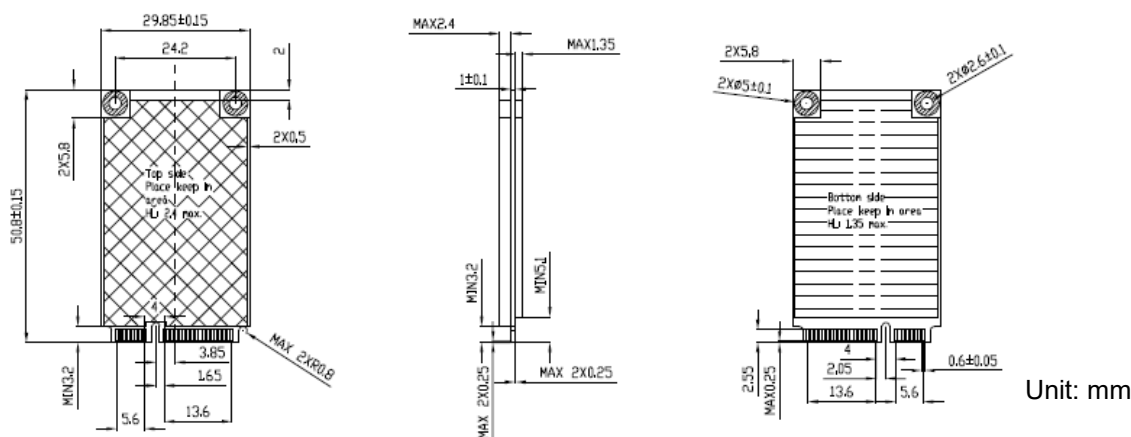
### Ordering Information

| Operating Temp. | 64GB          | 128GB         | 256GB         | 512GB         | 1TB           |
|-----------------|---------------|---------------|---------------|---------------|---------------|
| 0°C to 70°C     | IMSS316-064GD | IMSS316-128GD | IMSS316-256GD | IMSS316-512GD | IMSS316-001TD |
| -40°C to 85°C   | IMSS316-064GP | IMSS316-128GP | IMSS316-256GP | IMSS316-512GP | IMSS316-001TP |

**Specifications**

| Model                              | IMSS316                                                                                                       |
|------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Form Factor                        | mSATA (MO-300A)                                                                                               |
| Capacity                           | 64GB – 1TB                                                                                                    |
| Interface                          | SATA III                                                                                                      |
| Flash Type                         | 64L 3D TLC                                                                                                    |
| Dimensions (L x W x H)             | 50.8 x 29.85 x 4.85mm                                                                                         |
| Sequential Read (Max.)             | 560MB/s                                                                                                       |
| Sequential Write (Max.)            | 520MB/s                                                                                                       |
| Operating Temperature (Standard)   | 0°C to 70°C                                                                                                   |
| Operating Temperature (Industrial) | -40°C to 85°C                                                                                                 |
| Operating Voltage                  | 3.3V                                                                                                          |
| Power Consumption (Max)            | 1.45W                                                                                                         |
| Shock Resistance                   | 1500G/0.5ms, Half Sine Wave                                                                                   |
| Operating Humidity                 | 5%-95% RH, non-condensing                                                                                     |
| Vibration Resistance               | 20G (20-2000Hz)                                                                                               |
| Technologies                       | LDPC ECC, RAID Engine, Wear Leveling, SLC Cache, TRIM and NCQ command, Thermal Throttling, S.M.A.R.T. Monitor |

**Diagram**



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