

### INTRODUCTION

This Addonics 2.5" M2 (NGFF) Flash drive turns a regular M2 (NGFF) SSD into a 2,5" SSD. The drive frame and the Addonics' Industrial class mSATA SSD is one of the most reliable SSDs in the market. Made of SLC NAND flash, the Addonics Industrial mSATA SSD boost the durability of the card to over 7 times that of commercial grade MLC SSD. This highly durable mSATA SSD ideal for Is ideal for mission applications

that are deployed in different industries such as data center, finance and aerospace or manufacturing facilities with equipment operating in a harsh environment.

The Addonics mSATA card is also available in Enterprise class mSATA that is made of MLC flash. This offers a more economical solution for applications or equipment operating in industrial temperature range . For detail information on the Enterprise grade MLC type of mSATA card, please visit the following product Enterprise mSATA SSD product web page.



### FEATURES

- Industrial class mSATA SLC SSD
- Great for the following industries: data center, finance, aero space, manufacturing and others that require high durability and wide operating temperature range
- Choice of 8G - 64GB capacities
- SATA III 3.0Gbps interface
- SLC NAND flash
- Data transfer rate
  - 32G and 64G - Read Seq. up to 130MB/s, Write Seq. up to 110MB/s
  - 8G and 16G - Read Seq. up to 66MB/s, Write Seq. up to 60MB/s
- Industrial operating temperature: -40°C to +85°C
- TeraBytes Written (TBW): 3,448TBW for 64GB

Model	Capacity	NAND type	Price	Max. Read speed	Max. Write speed	Operating temp.
AFMSS3W8G-S	8GB	SLC	\$105.00	66 MB/sec	60 MB/sec	-40°C to +85°C
AFMSS3W16G-S	16GB	SLC	\$175.00	66 MB/sec	60 MB/sec	-40°C to +85°C
AFMSS3W32G-S	32GB	SLC	\$325.00	130 MB/sec	110 MB/sec	-40°C to +85°C
AFMSS3W64G-S	64GB	SLC	\$639.00	130 MB/sec	110 MB/sec	-40°C to +85°C

### SPECIFICATIONS

- Flash type: SLC
- Compliant with SATA Revision 3.0
- Transfer rate
  - 32G and 64G - Read Seq. up to 130MB/s, Write Seq. up to 110MB/s
  - 8G and 16G - Read Seq. up to 66MB/s, Write Seq. up to 60MB/s
- Advanced Flash management
  - Static and Dynamic Wear Leveling
  - Bad Block Management
  - TRIM
  - SMART
  - Over-Provision
- Support expanded register for SATA protocol 48 bits addressing mode
- Power Fail Protection
- Voltage: 3.3 V +/- 5%
- Power consumption:
  - Active mode: < 2000mW
  - Idle mode: < 330mW
  - DEVSLP mode: < 5mW
- Dimension (LxWxH): 50.8mm x 29.85mm x 4mm
- TeraBytes Written (TBW): 3,448TBW for 64GB
- ECC scheme: Up to 72 bits / 1K Byte
- UART function
- GPIO
- Operating shock rating: 1,500G
- Vibration: 20G
- MTBF: > 3,000,000 hours
- Humidity: RH 95% under 55°C (operational)
- Complies with Compact flash Association specification standards
- Operating Temperature: -40°C to +85°C
- Storage Temperature: -40°C to + 85°C
- Warranty: 3 year
- Compliant: RoHS, CE/FCC