

### INTRODUCTION

Addonics' Industrial class M2 SSD is one of the most reliable SSDs in the market. Made of SLC NAND flash, the Addonics Industrial M2 SSD boost the durability of the card to over 7 times that of commercial grade MLC SSD. This highly durable M2 SSD is ideal for mission critical 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 M2 card is also available in Enterprise class M2 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 M2 card, please visit the following product Enterprise M2 SSD product web page.



### FEATURES

- Industrial class M2 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 16G - 64GB capacities
- SATA III 3.0Gbps interface
- SLC NAND flash
- Data transfer rate
  - 64G - Read Seq. up to 130MB/s, Write Seq. up to 110MB/s
  - 16G and 32G - 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.
AFM2S3W16G-S	16GB	SLC	\$175.00	66 MB/sec	60 MB/sec	-40°C to +85°C
AFM2S3W32G-S	32GB	SLC	\$325.00	130 MB/sec	110 MB/sec	-40°C to +85°C
AFM2S3W64G-S	64GB	SLC	\$639.00	130 MB/sec	130 MB/sec	-40°C to +85°C

### SPECIFICATIONS

- Flash type: SLC
- Compliant with SATA Revision 3.0
- 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
- Data transfer rate
  - 64G - Read Seq. up to 130MB/s, Write Seq. up to 110MB/s
  - 16G and 32G - Read Seq. up to 66MB/s, Write Seq. up to 60MB/s
- Power Fail Protection
- Voltage: 3.3 V +/- 5%
- Power consumption:
  - Active mode: < 2000mW
  - Idle mode: < 285mW
  - DEVSLP mode: < 5mW
- Dimension (LxWxH): 60mm x 22mm x 3.9mm
- 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