



ATP Embedded Modules mSATA

Targeted Product Portfolio, Engineered Specifically for Your Mission Critical Applications



The mSATA Industrial Grade Embedded Module is designed for small form factor embedded and networking applications with space constraints and high performance requirements. To further ensure data integrity, the ATP PowerProtector technology allows the ATP mSATA to intelligently manage the read and write process under a sudden power failure and thus surpassing the technical and space limitations offered by existing power failure protection solutions. PowerProtector's leaner requirements for board footprint allows for support in smaller form factors such as mSATA.

Key Features

- Adheres to the JEDEC mechanical specification MO-300A
- Built-in hardware-based data protection technology during power failure - PowerProtector
- Ultra high performance solution for small embedded form factors and industrial applications
- Supports S.M.A.R.T. ATA feature set
- RoHS compliant and CE/FCC certification

Applications

- Telecommunications
- Industrial & Embedded
- Gaming & Digital Signage
- Medical & Field Equipment
- Server & Storage
- Ruggedized Tablets





Specifications

Product Name	mSATA		
Flash Type	SLC	aMLC	MLC*
Density	8GB to 128GB	8GB to 64GB	16GB to 512GB
Performance	Sequential Read up to 530 MB/s	Sequential Read up to 250 MB/s	Sequential Read up to 530 MB/s
	Sequential Write up to 430 MB/s	Sequential Write up to 190 MB/s	Sequential Write up to 440 MB/s
	Random Read IOPS up to 76,520	Random Read IOPS up to 3,800	Random Read IOPS up to 72,040
Interface	SATA III 6 Gb/s	SATA II 3 Gb/s	SATA III 6 Gb/s
Operation Temp.	-45°C to +85°C	0°C to +70°C	
Reliability	Advanced Wear Leveling , AutoRefresh, PowerProtector		
	TBW* (max.) : 5,120 TB	TBW** (max.) : 512 TB	TBW* (max.) : 614.4 TB
	MTBF @ 25°C: >5,000,000 hours	MTBF @ 25°C: >3,000,000 hours	MTBF @ 25°C: >2,000,000 hours
Dimensions : LxWxH (mm)	50.8 x 29.85 x 3.4		

* Available on a project basis.

** All TBW data listed are under highest sequential write value in each product line. The TBW data are subject to change by density, configuration and customers' applications.

Ordering Information

Density	mSATA		
	SLC	aMLC	MLC*
4GB	-	-	-
8GB	AF8GSSHI-VACXP	AF8GSAHI-RAAXP	-
16GB	AF16GSSHI-VACXP	AF16GSAHI-RAAXP	AF16GSMHI-VADXP
32GB	AF32GSSHI-VACXP	AF32GSAHI-RAAXP	AF32GSMHI-VADXP
64GB	AF64GSSHI-VACXP	AF64GSAHI-RAAXP	AF64GSMHI-VACXP
128GB	AF128GSSHI-VAAXP	-	AF128GSMHI-VACXP
256GB	-	-	AF256GSMHI-VAAXP
512GB	-	-	AF512GSMHI-VAAXP

* Available on a project basis.

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