



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, 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



Life Monitor



Secure Erase



PowerProtector

Specifications

Product Name	mSATA			
Flash Type	SLC	iTemp aMLC	iTemp MLC	MLC
Density	8GB to 128GB	64GB to 256GB	16GB to 512GB	16GB to 512GB
Performance	Sequential Read up to 530 MB/s	Sequential Read up to 550MB/s	Sequential Read up to 550 MB/s	Sequential Read up to 550 MB/s
	Sequential Write up to 430 MB/s	Sequential Write up to 440MB/s	Sequential Write up to 450 MB/s	Sequential Write up to 450 MB/s
	Random Read IOPS up to 76,000	Random Read IOPS up to 73,700	Random Read IOPS up to 70,000	Random Read IOPS up to 70,000
Interface	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.) : 10,667 TB	TBW* (max.) : 8,533.3 TB	TBW* (max.) : 1,067 TB	TBW* (max.) : 1,280 TB
	MTBF @ 25°C: >5,000,000 hours	MTBF @ 25°C: >2,000,000 hours		
Dimensions : LxWxH (mm)	50.8 x 29.85 x 3.4			

* 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	iTemp aMLC	iTemp MLC	MLC
8GB	AF8GSSHI-VACXP	-	-	-
16GB	AF16GSSHI-VACXP	-	AF16GSMHI-VAEIP	AF16GSMHI-VAEXP
32GB	AF32GSSHI-VACXP	-	AF32GSMHI-VAFIP	AF32GSMHI-VAFXP
64GB	AF64GSSHI-VACXP	AF64GSAHI-VAAIP	AF64GSMHI-VADIP	AF64GSMHI-VADXP
128GB	AF128GSSHI-VAAXP	AF128GSAHI-VAAIP	AF128GSMHI-VADIP	AF128GSMHI-VADXP
256GB	-	AF256GSAHI-VAAIP	AF256GSMHI-VABIP	AF256GSMHI-VABXP
512GB	-	-	AF512GSMHI-VABIP	AF512GSMHI-VABXP

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