ATP Embedded Modules mSATA & mSATA mini

Targeted Product Portfolio, Engineered Specifically for Your Mission Critical Applications



The mSATA & mSATA mini Industrial Grade Embedded Module is designed for small form factor embedded and networking applications with space constraints and high performance requirements. To provide further data integrity, ATP PowerProtector technology allows the ATP mSATA & mSATA mini 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 & mSATA mini.

Key Features

- Adheres to the JEDEC mechanical specification MO-300A/B
- 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

S.M.A.R.T.

SECURE ERASE

POWER PROTECTOR

Specifications

Product Name	mSATA (MO-300A)			mSATA mini (MO-300B)
Flash Type	SLC	aMLC	MLC*	SLC
Density	8GB to 128GB	8GB to 64GB	8GB to 256GB	4GB to 32GB
Performance	Sequential Read up to 530 MB/s	Sequential Read up to 250 MB/s	Sequential Read up to 520 MB/s	Sequential Read up to 80 MB/s
	Sequential Write up to 430 MB/s	Sequential Write up to 190 MB/s	Sequential Write up to 300 MB/s	Sequential Write up to 65 MB/s
	Random Read IOPS up to 9,200	Random Read IOPS up to 3,800	Random Read IOPS up to 7,200	Random Read IOPS up to 3,600
Interface	SATA III 6 Gb/s	SATA II 3 Gb/s	SATA III 6 Gb/s	SATA II 3 Gb/s
Operation Temp.	-45°C to +85°C	0°C to +70°C		-45°C to +85°C
Reliability	Advanced Wear Leveling , AutoRefresh, PowerProtector			
	TBW* (max.) : 2,560 TB	TBW** (max.) : 512 TB	TBW* (max.) : 153.6 TB	TBW** (max.) : 640 TB
	MTBF @ 25°C: >5,000,000 hours	MTBF @ 25°C: >3,000,000 hours	MTBF @ 25°C: >2,000,000 hours	MTBF @ 25°C: >5,000,000 hours
Dimensions : LxWxH (mm)	50.8 x 29.8 x 3.7			26.8 x 29.85 x 3.7

* Available on a project basis.

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

Ordering Information

Density	mSATA			mSATA mini
	SLC	aMLC	MLC*	SLC
4GB	-	-	-	AF4GSSHJ-RAAXP
8GB	AF8GSSHI-VACXP	AF8GSAHI-RAAXP	AF8GSMHI-VACXP	AF8GSSHJ-RAAXP
16GB	AF16GSSHI-VACXP	AF16GSAHI-RAAXP	AF16GSMHI-VACXP	AF16GSSHJ-RAAXP
32GB	AF32GSSHI-VACXP	AF32GSAHI-RAAXP	AF32GSMHI-VACXP	AF32GSSHJ-RAAXP
64GB	AF64GSSHI-VACXP	AF64GSAHI-RAAXP	AF64GSMHI-VACXP	-
128GB	AF128GSSHI-VAAXP	-	AF128GSMHI-VACXP	-
256GB	-	-	AF256GSMHI-VAAXP	-

* Available on a project basis.

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