Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

ATP Embedded Modules mSATA

Targeted Product Portfolio, Engineered Specifically for Your Mission Critical Applications

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

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.

Life Monitor

Secure Erase

PowerProtector

Specifications

Product Name	mSATA		
Flash Type	SLC	iTemp MLC	MLC
Density	8GB to 128GB	16GB to 512GB	16GB to 512GB
Performance	Sequential Read up to 530 MB/s	Sequential Read up to 530 MB/s	Sequential Read up to 530 MB/s
	Sequential Write up to 430 MB/s	Sequential Write up to 440 MB/s	Sequential Write up to 440 MB/s
	Random Read IOPS up to 76,520	Random Read IOPS up to 72,040	Random Read IOPS up to 72,040
Interface	SATA III 6 Gb/s		
Operation Temp.	-45°C to +85°C	-45°C to +85°C	0°C to +70°C
Reliability	Advanced Wear Leveling , AutoRefresh, PowerProtector		
	TBW* (max.) : 5,120 TB	TBW* (max.) : 1,066.68 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 MLC	MLC
8GB	AF8GSSHI-VACXP	-	-
16GB	AF16GSSHI-VACXP	AF16GSMHI-VAEIP	AF16GSMHI-VAEXP
32GB	AF32GSSHI-VACXP	AF32GSMHI-VAFIP	AF32GSMHI-VAFXP
64GB	AF64GSSHI-VACXP	AF64GSMHI-VADIP	AF64GSMHI-VADXP
128GB	AF128GSSHI-VAAXP	AF128GSMHI-VADIP	AF128GSMHI-VADXP
256GB	-	AF256GSMHI-VABIP	AF256GSMHI-VABXP
512GB	-	AF512GSMHI-VABIP	AF512GSMHI-VABXP

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