

SQF-SMS

mSATA Flash Module

SQF-SMS Extreme

mSATA Flash Module

NEW



RoHS COMPLIANT 300096963 CE FCC



Features

- MO-300 mSATA Module
- Compliant with SATA II and SATA v 2.6 standard
- Supports 44 bit ECC correct per 1K Byte data
- Universal wear-leveling and bad block management
- Shock resistance, anti-vibration and low power consumption
- GUI management tool & software API package

Specifications

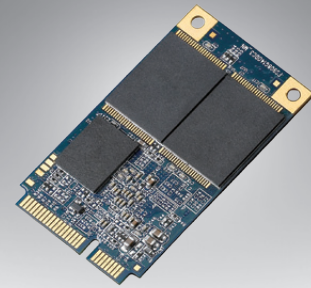
Connector Type	Mini PCIe 52pin connector with SATA pin-out
Flash type	SLC / MLC
Capacity	SLC: 2G to 32 GB MLC: 8G to 128 GB
Transfer Mode	SATA II (3.0 Gbps)
Sustained R/W Performance (*)	SLC: up to 140/100 MB/sec MLC: up to 120/80 MB/sec
Operating Temperature	Commercial grade: 0 to +70° C Industrial grade: -40 to +85° C
Shock Resistance	1,500 G, peak / 0.5 ms
Vibration Resistance	20 G, peak / 80 ~ 2000 Hz
Endurance	2,000,000 program/erase cycles
Dimensions (mm)	50.8 x 30 x 4.2

(*) These values are for reference only; they may change according to the flash memory used.

Ordering Information

PN	Description
SQF-SMSS2-2G-S7C	Advantech SQFlash mSATA 2 GB SLC, 2-CH (0 ~ 70° C)
SQF-SMSS2-2G-S7E	Advantech SQFlash mSATA 2 GB SLC, 2-CH (-40 ~ 85° C)
SQF-SMSS4-XG-S7C	Advantech SQFlash mSATA 4/8/16/32 GB SLC, 4-CH (0 ~ 70° C)
SQF-SMSS4-XG-S7E	Advantech SQFlash mSATA 4/8/16/32 GB SLC, 4-CH (-40 ~ 85° C)
SQF-SMSM2-8G-S7C	Advantech SQFlash mSATA 8 GB MLC, 2-CH (0 ~ 70° C)
SQF-SMSM2-8G-S7E	Advantech SQFlash mSATA 8 GB MLC, 2-CH (-40 ~ 85° C)
SQF-SMSM4-XG-S7C	Advantech SQFlash mSATA 16/32/64/128 GB MLC, 4-CH (0 ~ 70° C)
SQF-SMSM4-XG-S7E	Advantech SQFlash mSATA 16/32/64/128 GB MLC, 4-CH (-40 ~ 85° C)

Note: X stands for different capacities



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Features

- MO-300 mSATA Module
- Compliant with SATA II and SATA v 2.6 standard
- Supports 48/32/28 bit ECC correct per 2K Byte data
- Supports Fragment Writing and GuaranteedFlush
- Shock resistance, anti-vibration and low power consumption
- GUI management tool & software API package

Specifications

Connector Type	Mini PCIe 52pin connector with SATA pin-out
Flash type	SLC / MLC
Capacity	SLC: 4G to 64 GB MLC: 16G to 128 GB
Transfer Mode	SATA II (3.0 Gbps)
Sustained R/W Performance (*)	SLC: 145/100 MB/sec (32 GB up to 210/175) MLC: 135/90 MB/sec (64 GB up to 200/175)
Operating Temperature	Commercial grade: 0 to +70° C Industrial grade: -40 to +85° C
Shock Resistance	1,500 G, peak / 0.5 ms
Vibration Resistance	20 G, peak / 80 ~ 2000 Hz
Endurance	2,000,000 program/erase cycles
Dimensions (mm)	50.8 x 30 x 4.2

(*) These values are for reference only; they may change according to the flash memory used.

Ordering Information

PN	Description
SQF-SMSS4-XG-S5C	Advantech SQFlash mSATA 4/8/16 GB SLC, 4-CH (0 ~ 70° C)
SQF-SMSS4-XG-S5E	Advantech SQFlash mSATA 4/8/16 GB SLC, 4-CH (-40 ~ 85° C)
SQF-SMSS8-32G-S5C	Advantech SQFlash mSATA 32/64 GB SLC, 8-CH (0 ~ 70° C)
SQF-SMSS8-32G-S5E	Advantech SQFlash mSATA 32/64 GB SLC, 8-CH (-40 ~ 85° C)
SQF-SMSM4-XG-S5C	Advantech SQFlash mSATA 16/32/64 GB MLC, 4-CH (0 ~ 70° C)
SQF-SMSM4-XG-S5E	Advantech SQFlash mSATA 16/32/64 GB MLC, 4-CH (-40 ~ 85° C)
SQF-SMSM8-128G-S5C	Advantech SQFlash mSATA 128 GB MLC, 8-CH (0 ~ 70° C)
SQF-SMSM8-128G-S5E	Advantech SQFlash mSATA 128 GB MLC, 8-CH (-40 ~ 85° C)

Note: X stands for different capacities



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