

Datasheet

SQF-SMS 630 **Advantech**

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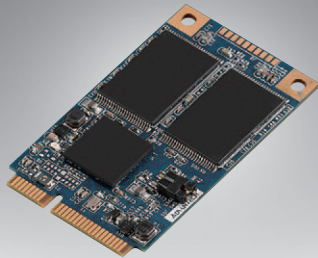
SQF-SMS 630

SATA III (6.0Gb) mSATA

SQF-SMS 820

SATA III (6.0Gb) mSATA

NEW



RoHS COMPLIANT
CE FCC



Features

- MO-300 mSATA Module
- Compliant with SATA III and SATA v 3.0 standard
- Supports 72 bit ECC correct per 1K Byte data
- Low power consumption SATA III storage module
- Shock resistance, anti-vibration and low power consumption
- GUI management tool & software API package
- Support hardware write protect

Specifications

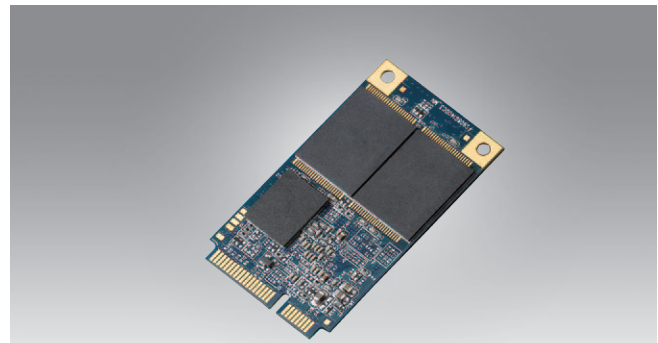
Connector Type	Mini PCIe 52pin connector with SATA pin-out
Flash type	SLC / Ultra MLC / MLC
Capacity	SLC: 1 to 32GB Ultra MLC: 8 to 32GB MLC: 4 to 64GB
Transfer Mode	SATA III (6.0 Gbps)
Max. Power Consumption	500 mA
Sustained R/W Performance (*)	SLC and MLC up to 510/150 MB/sec
Operating Temperature	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-SMSS1-1G-S9C	SQFlash 630 series mSATA 1 GB SLC, 1-CH (0 ~ 70° C)
SQF-SMSS1-1G-S9E	SQFlash 630 series mSATA 1 GB SLC, 1-CH (-40 ~ 85° C)
SQF-SMSS2-2G-S9C	SQFlash 630 series mSATA 2 GB SLC, 2-CH (0 ~ 70° C)
SQF-SMSS2-2G-S9E	SQFlash 630 series mSATA 2 GB SLC, 2-CH (-40 ~ 85° C)
SQF-SMSS4-XG-S9C	SQFlash 630 series mSATA 4/8/16/32 GB SLC, 4-CH (0 ~ 70° C)
SQF-SMSS4-XG-S9E	SQFlash 630 series mSATA 4/8/16/32 GB SLC, 4-CH (-40 ~ 85° C)
SQF-SMSU4-XG-S9C	SQFlash 630 series mSATA Ultra MLC, DMA, 8/16/32 GB (0 ~ 70° C)
SQF-SMSU4-XG-S9E	SQFlash 630 series mSATA Ultra MLC, DMA, 8/16/32 GB (-40 ~ 85° C)
SQF-SMSM1-4G-S9C	SQFlash 630 series mSATA 4 GB MLC, 1-CH (0 ~ 70° C)
SQF-SMSM1-4G-S9E	SQFlash 630 series mSATA 4 GB MLC, 1-CH (-40 ~ 85° C)
SQF-SMSM2-8G-S9C	SQFlash 630 series mSATA 8 GB MLC, 2-CH (0 ~ 70° C)
SQF-SMSM2-8G-S9E	SQFlash 630 series mSATA 8 GB MLC, 2-CH (-40 ~ 85° C)
SQF-SMSM4-XG-S9C	SQFlash 630 series mSATA 16/32/64 GB MLC, 4-CH (0 ~ 70° C)
SQF-SMSM4-XG-S9E	SQFlash 630 series mSATA 16/32/64 GB MLC, 4-CH (-40 ~ 85° C)

Note: X stands for different capacities



RoHS COMPLIANT
CE FCC



Features

- MO-300 mSATA Module
- Compliant with SATA III and SATA v 3.0 standard
- Supports 72 bit ECC correct per 1K Byte data
- Supports Fragment Writing and Flush Manager
- 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 / Ultra MLC / MLC
Capacity	SLC: 16 to 128GB Ultra MLC: 16 to 128GB MLC: 16 to 256GB
Transfer Mode	SATA III (6.0 Gbps)
Max. Power Consumption	780 mA
Sustained R/W Performance (*)	SLC and MLC up to 510/300 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-SMSS4-XG-S8C	SQFlash 820 series mSATA SLC 16/32/64/128G (0 ~ 70° C)
SQF-SMSS4-XG-S8E	SQFlash 820 series mSATA SLC 16/32/64/128G (-40 ~ 85° C)
SQF-SMSM4-XG-S8C	SQFlash 820 series mSATA MLC 16/32/64/128G (0 ~ 70° C)
SQF-SMSM4-XG-S8E	SQFlash 820 series mSATA MLC 16/32/64/128G (-40 ~ 85° C)
SQF-SMSU4-XG-S8C	Advantech SQFlash mSATA Ultra MLC, DMA, 16/32/64/128 GB (0 ~ 70° C)
SQF-SMSU4-XG-S8E	Advantech SQFlash mSATA Ultra MLC, DMA, 16/32/64/128 GB (-40 ~ 85° C)
SQF-SMSM8-256G-S8C	SQFlash 820 series mSATA MLC 256G (0 ~ 70° C)
SQF-SMSM8-256G-S8E	SQFlash 820 series mSATA MLC 256G (-40 ~ 85° C)

Note: X stands for different capacities

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