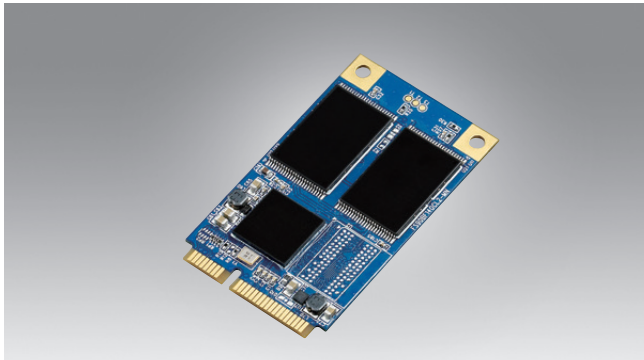


# SQF-SMS 520

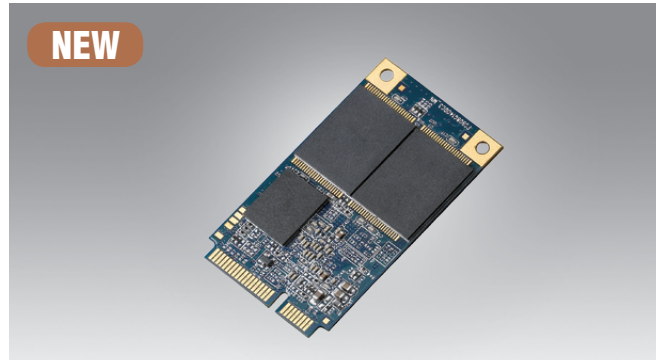
## SATA II (3.0Gb) mSATA

# SQF-SMS 820

## SATA III (6.0Gb) mSATA

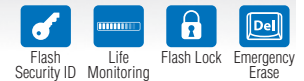


RoHS COMPLIANT 2002/95/EC CE FCC



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### 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

### 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 / 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

### Specifications

Connector Type	Mini PCIe 52pin connector with SATA pin-out
Flash type	SLC / MLC
Capacity	SLC: 16 to 64 GB MLC: 16 to 256 GB
Transfer Mode	SATA III (6.0 Gbps)
Sustained R/W Performance (*)	SLC and MLC up to 500/150 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-SMSS2-8G-S8C	SQFlash 820 series mSATA SLC 8G (0 ~ 70° C)
SQF-SMSS2-8G-S8E	SQFlash 820 series mSATA SLC 8G (-40 ~ 85° C)
SQF-SMSS4-XG-S8C	SQFlash 820 series mSATA SLC 16/32/64G (0 ~ 70° C)
SQF-SMSS4-XG-S8E	SQFlash 820 series mSATA SLC 16/32/64G (-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-SMSM5-XG-S8C	SQFlash 820 series mSATA MLC 40/80/160G (0 ~ 70° C)
SQF-SMSM5-XG-S8E	SQFlash 820 series mSATA MLC 40/80/160G (-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