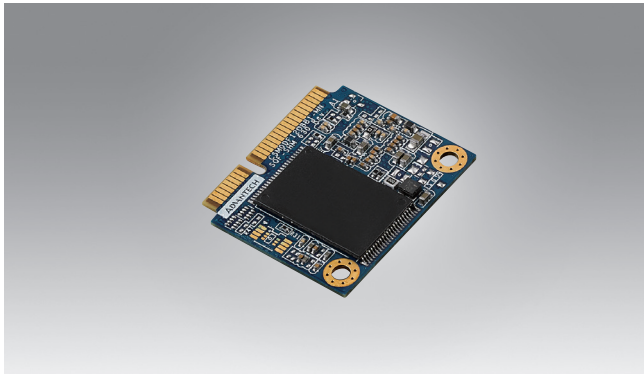


# SQF-SHM 630

## SATA III (6.0Gb) Half-Size mSATA



### Features

- Half-Size Mini PCIe Form Factor
- Interface: SATA Gen. 3
- Supports 72 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 / Ultra MLC / MLC
Capacity	SLC: 1 to 32GB Ultra MLC: 4 to 128GB MLC: 4 to 256GB
Transfer Mode	SATA III (6.0 Gbps)
Sustained R/W Performance*	SLC: up to 500/150 MB/sec MLC: up to 250/100 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
Dimensions (mm)	26.8 x 30 x 4.2

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

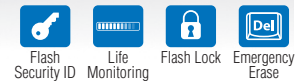
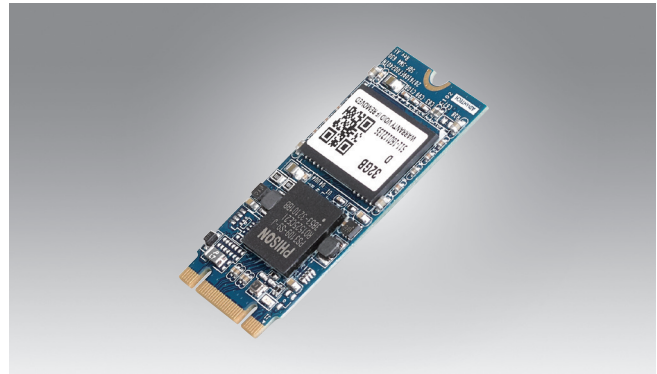
### Ordering Information

PN	Description
SQF-SHMS1-1G-S9C	SQFlash 630 series HS mSATA SLC, DMA, 1 GB (0 ~ 70 °C)
SQF-SHMS1-1G-S9E	SQFlash 630 series HS mSATA SLC, DMA, 1 GB (-40 ~ 85 °C)
SQF-SHMS2-XG-S9C	SQFlash 630 series HS mSATA SLC, DMA, 2/4/8/16/32 GB (0 ~ 70 °C)
SQF-SHMS2-XG-S9E	SQFlash 630 series HS mSATA SLC, DMA, 2/4/8/16/32 GB (-40 ~ 85 °C)
SQF-SHMU2-XG-S9C	SQFlash 630 series HS mSATA Ultra MLC, DMA, 4/8/16/32/64/128 GB (0 ~ 70 °C)
SQF-SHMU2-XG-S9E	SQFlash 630 series HS mSATA Ultra MLC, DMA, 4/8/16/32/64/128 GB (-40 ~ 85 °C)
SQF-SHMM1-4G-S9C	SQFlash 630 series HS mSATA MLC, DMA, 4 GB (0 ~ 70 °C)
SQF-SHMM1-4G-S9E	SQFlash 630 series HS mSATA MLC, DMA, 4 GB (-40 ~ 85 °C)
SQF-SHMM2-XG-S9C	SQFlash 630 series HS mSATA MLC, DMA, 8/16/32/64/128/256 GB (0 ~ 70 °C)
SQF-SHMM2-XG-S9E	SQFlash 630 series HS mSATA MLC, DMA, 8/16/32/64/128/256 GB (-40 ~ 85 °C)

Note: X stands for different capacities

# SQF-SM4 630

## SATA III (6.0Gb) M.2 2242



### Features

- NGFF M.2 2242 SSD
- Interface: SATA III (6.0 Gbps)
- Supports 72 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	NGFF B+M key
Flash Type	SLC / Ultra MLC / MLC
Capacity	SLC: 8 to 64GB Ultra MLC: 16 to 128GB MLC: 32 to 256GB
Transfer Mode	SATA III (6.0 Gbps)
Sustained R/W Performance*	SLC: up to 500/150 MB/sec MLC: up to 490/170 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
Dimensions (mm)	42.0 x 22.0 x 3.8

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

### Ordering Information

PN	Description
SQF-SM4S2-8G-S9C	SQFlash 630 series M.2 2242, SLC, 8GB (0 ~ 70 °C)
SQF-SM4S4-XG-S9C	SQFlash 630 series M.2 2242, SLC, 16/32/64 GB (0 ~ 70 °C)
SQF-SM4S2-8G-S9E	SQFlash 630 series M.2 2242, SLC, 8GB (-40 ~ 85 °C)
SQF-SM4S4-XG-S9E	SQFlash 630 series M.2 2242, SLC, 16/32/64 GB (-40 ~ 85 °C)
SQF-SM4U2-16G-S9C	SQFlash 630 series M.2 2242, UltraMLC, 16GB (0 ~ 70 °C)
SQF-SM4U4-XG-S9C	SQFlash 630 series M.2 2242, UltraMLC, 32/64/128 GB (0 ~ 70 °C)
SQF-SM4U2-16G-S9E	SQFlash 630 series M.2 2242, UltraMLC, 16GB (-40 ~ 85 °C)
SQF-SM4U4-XG-S9E	SQFlash 630 series M.2 2242, UltraMLC, 32/64/128 GB (-40 ~ 85 °C)
SQF-SM4M2-32G-S9C	SQFlash 630 series M.2 2242, MLC, 32GB (0 ~ 70 °C)
SQF-SM4M4-XG-S9C	SQFlash 630 series M.2 2242, MLC, 64/128/256 GB (0 ~ 70 °C)
SQF-SM4M2-32G-S9E	SQFlash 630 series M.2 2242, MLC, 32GB (-40 ~ 85 °C)
SQF-SM4M4-XG-S9E	SQFlash 630 series M.2 2242, MLC, 64/128/256 GB (-40 ~ 85 °C)

Note: X stands for different capacities