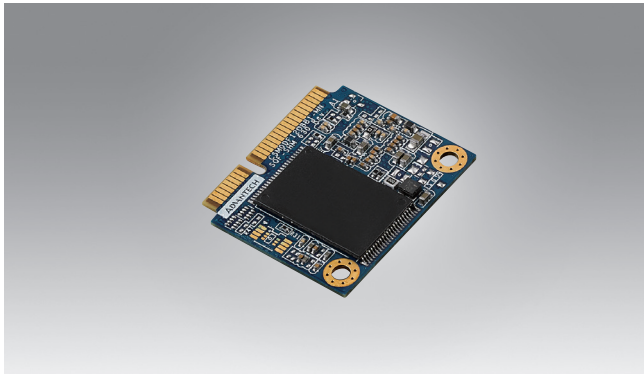


SQF-SHM 630

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.

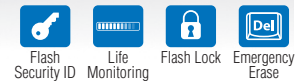
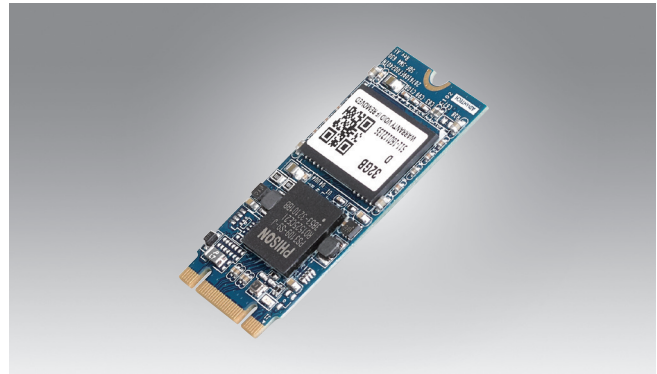
Ordering Information

| 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