

SQF-S10 630

SATA III (6.0Gb) CFast

SQF-SHM 630

SATA III (6.0Gb) Half-Size mSATA

NEW



RoHS COMPLIANT 2002/95/EC CE FCC



Features

- Compliant with standard CFast card Type 1 specifications
- 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 | CFast Type 1 Connector |
| Flash type | SLC / Ultra MLC / MLC |
| Capacity | SLC: 1 to 32GB Ultra MLC: 4 to 32GB MLC: 4 to 64GB |
| 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 |
| Endurance | 2,000,000 program/erase cycles |
| Dimensions (mm) | 42.8 x 36.4 x 3.3 |

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

Ordering Information

| PN | Description |
|------------------|---|
| SQF-S10S1-1G-S9C | SQFlash 630 series CFast SLC, DMA, 1 GB (0 ~ 70° C) |
| SQF-S10S1-1G-S9E | SQFlash 630 series CFast SLC, DMA, 1 GB (-40 ~ 85° C) |
| SQF-S10S2-XG-S9C | SQFlash 630 series CFast SLC, DMA, 2/4/8/16/32 GB (0 ~ 70° C) |
| SQF-S10S2-XG-S9E | SQFlash 630 series CFast SLC, DMA, 2/4/8/16/32 GB (-40 ~ 85° C) |
| SQF-S10U2-XG-S9C | SQFlash 630 series CFast Ultra MLC, DMA, 4/8/16/32 GB (0 ~ 70° C) |
| SQF-S10U2-XG-S9E | SQFlash 630 series CFast Ultra MLC, DMA, 4/8/16/32 GB (-40 ~ 85° C) |
| SQF-S10M1-4G-S9C | SQFlash 630 series CFast MLC, DMA, 4 GB (0 ~ 70° C) |
| SQF-S10M1-4G-S9E | SQFlash 630 series CFast MLC, DMA, 4 GB (-40 ~ 85° C) |
| SQF-S10M2-XG-S9C | SQFlash 630 series CFast MLC, DMA, 8/16/32/64 GB (0 ~ 70° C) |
| SQF-S10M2-XG-S9E | SQFlash 630 series CFast MLC, DMA, 8/16/32/64 GB (-40 ~ 85° C) |

Note: X stands for different capacities

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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 32GB MLC: 4 to 64GB |
| Transfer Mode | SATA III (6.0 Gbps) |
| Sustained R/W Performance (*) | SLC: up to 130/100 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 |
| Endurance | 2,000,000 program/erase cycles |
| 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 GB (0 ~ 70° C) |
| SQF-SHMU2-XG-S9E | SQFlash 630 series HS mSATA Ultra MLC, DMA, 4/8/16/32 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 GB (0 ~ 70° C) |
| SQF-SHMM2-XG-S9E | SQFlash 630 series HS mSATA MLC, DMA, 8/16/32/64 GB (-40 ~ 85° C) |

Note: X stands for different capacities