SQF-S10 630

SATA III (6.0Gb) CFast



RoHS CE FCC

Flash Security ID | Life Monitoring | Flash Lock | Emergency Erase

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.

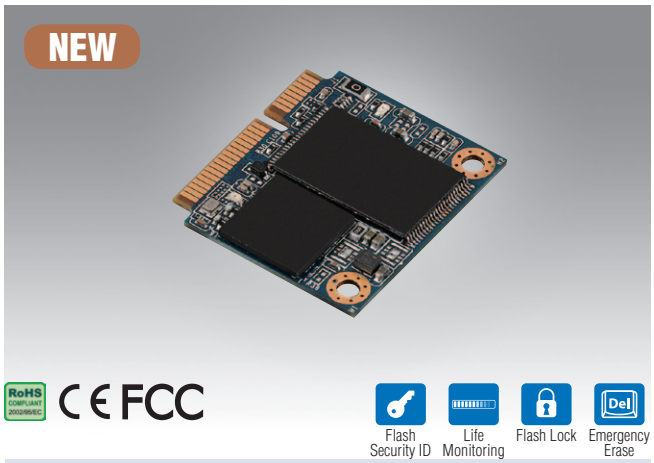
Ordering Information

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

SQF-SHM 630

SATA III (6.0Gb) Half-Size mSATA



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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