# **SQF-S10**

## **SQF-S10 (Extreme)**



Flash Life Security ID Monitoring



#### **Features**

- Compliant with standard CFast card Type 1 specifications
- Interface: SATA Gen. 2
- Built-in EDC/ECC up to 15bit random bits error per 512 bytes
- Universal Wear-leveling and Bad Block Management
- Shock resistance, anti-vibration and Low power consumption
- GUI Management Tool & Software API Package

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### **Specifications**

Connector Type	CFast Type 1 Connector
Flash Type	SLC
Capacity	2 to 16GB
Transfer Mode	SATA II (3.0 Gbps)
Sustained R/W	4 channel: 95/50 MB/sec
Performance (*)	2 channel: 45/25 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	20G, Peak / 10 ~ 2000 Hz
Humidity	5% ~ 95%
Endurance	> 5,000,000 program/erase cycles
MTBF	2,000,000 hours
Dimensions (mm)	42.8 x 36.4 x 3.3

<sup>(\*)</sup> The values are for reference only; they may change according to the flash memory used.

### **Specifications**

Flash Type	Connector Type	CFast Type 1 Connector
Transfer Mode SATA II (3.0 Gbps)  Sustained R/W SLC: 105/90 MB/sec Performance (*) MLC: 95/30 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 20G, Peak / 10 ~ 2000 Hz	Flash Type	SLC / MLC
MILC: 8 to 04GB	Capacity	
Sustained R/W Performance (*)  Operating Temperature  SLC: 105/90 MB/sec MLC: 95/30 MB/sec  Commercial Grade: 0 to +70° C Industrial Grade: -40 to +85° C  Shock Resistance  1,500 G, Peak / 0.5 ms  Vibration Resistance  20G, Peak / 10 ~ 2000 Hz		MLC: 8 to 64GB
Performance (*)  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  20G, Peak / 10 ~ 2000 Hz	Transfer Mode	SATA II (3.0 Gbps)
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  20G, Peak / 10 ~ 2000 Hz	Sustained R/W	SLC: 105/90 MB/sec
Uperating Temperature Industrial Grade: -40 to +85° C  Shock Resistance 1,500 G, Peak / 0.5 ms  Vibration Resistance 20G, Peak / 10 ~ 2000 Hz	Performance (*)	MLC: 95/30 MB/sec
Shock Resistance	Operating Temperature	Commercial Grade: 0 to +70° C
Vibration Resistance 20G, Peak / 10 ~ 2000 Hz		Industrial Grade: -40 to +85° C
	Shock Resistance	1,500 G, Peak / 0.5 ms
Humidity 5% ~ 95%	Vibration Resistance	20G, Peak / 10 ~ 2000 Hz
	Humidity	5% ~ 95%
Endurance > 5,000,000 program/erase cycles	Endurance	> 5,000,000 program/erase cycles
MTBF 1,000,000 hours	MTBF	1,000,000 hours
Dimensions (mm) 42.8 x 36.4 x 3.3	Dimensions (mm)	42.8 x 36.4 x 3.3

<sup>(\*)</sup> The values are for reference only; they may change according to the flash memory used.

### **Ordering Information**

Part No.	Product Description
SQF-S10S2-2G-CTE	Advantech SQFlash CFast SLC, DMA, 2 GB, (0 ~ 70° C)
SQF-S10S2-2G-ETE	Advantech SQFlash CFast SLC, DMA, 2 GB, (-40 ~ 85° C)
SQF-S10S4-XG-CTE	Advantech SQFlash CFast SLC, DMA, 4/8/16 GB, (0 ~ 70° C)
SQF-S10S4-XG-ETE	Advantech SQFlash CFast SLC, DMA, 4/8/16 GB, (-40 ~ 85° C)
SQF-S10S2-2G-CTE SQF-S10S2-2G-ETE SQF-S10S4-XG-CTE	Advantech SQFlash CFast SLC, DMA, 2 GB, (0 ~ 70° C) Advantech SQFlash CFast SLC, DMA, 2 GB, (-40 ~ 85° C) Advantech SQFlash CFast SLC, DMA, 4/8/16 GB, (0 ~ 70° C) Advantech SQFlash CFast SLC, DMA, 4/8/16 GB,

## **Ordering Information**

D. IN.	Book at December 2
Part No.	Product Description
SQF-S10S2-4G-M2C	Advantech SQFlash CFast SLC, DMA, 2CH, 4 GB, (0 ~ 70° C)
SQF-S10S2-4G-M2E	Advantech SQFlash CFast SLC, DMA, 2CH, 4 GB, $(-40 \sim 85^{\circ} \text{ C})$
SQF-S10S4-XG-M2C	Advantech SQFlash CFast SLC, DMA, 4CH, 8/16 GB, $(0 \sim 70^{\circ} \text{ C})$
SQF-S10S4-XG-M2E	Advantech SQFlash CFast SLC, DMA, 4CH, 8/16 GB, $(-40 \sim 85^{\circ} \text{ C})$
SQF-S10M2-8G-M2C	Advantech SQFlash CFast MLC, DMA, 2CH, 8 GB, (0 ~ 70° C)
SQF-S10M4-XG-M2C	Advantech SQFlash CFast MLC, DMA, 4CH, 16/32/64 GB, (0 ~ 70° C)