SQF-SDM
SATA Disk Module

RoHS COMPLIANT 2002/95/EC CE FCC

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

Features

- Half 1.8" SATA module
- Compliant with SATA II and SATA v2.6 standard
- Support 48/32/28 bit ECC correct per 2K Byte data
- Universal Wear-leveling and Bad Block Management
- Shock resistance, anti-vibration and Low power consumption
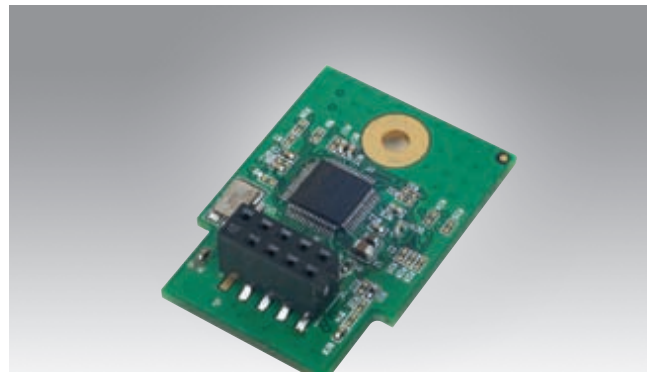- GUI Management Tool & Software API Package

Specifications

Connector Type	Standard 7+15pin SATA connector
Flash type	Ultra MLC
Capacity	8 GB to 32 GB
Transfer Mode	SATA II (3.0 Gbps)
Sustained R/W Performance (*)	130 / 110 MB per second
Storage Temperature	Commercial Grade: -40 to +85° C
	Industrial Grade: -40 to +85° C
Operation Temperature	Commercial Grade: 0 to +70° C
	Industrial Grade: -40 to +85° C
Vibration resistance	20 G, Peak / 80 ~ 2000 Hz
Shock resistance	1,500 G, Peak / 0.5 ms
Endurance	> 5,000,000 program/erase cycles
MTBF	> 2,000,000 hours
Dimension (mm)	54 x 39 x 4.5

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

Ordering Information

Part No.	Product Description
SQF-SDMU4-XG-CTE	Advantech SQFlash SATA DOM Ultra MLC, DMA, 8/16/32 GB, (0 ~ 70° C)
SQF-SDMU4-XG-ETE	Advantech SQFlash SATA DOM Ultra MLC, DMA, 8/16/32 GB, (-40 ~ 85° C)

SQF-UDM
Industrial USB DOM

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Features

- Compliant with standard USB specifications
- Built-in EDC/ECC up to 12 random bits error per 512 bytes
- Advanced Wear-leveling and Block Management
- Shock resistance, anti-vibration and Low power consumption

Specifications

Connector Type	10-pin 2.54 mm pitch receptacle housing connector
Flash Type	SLC
Capacity	1 GB to 8 GB
DC Supply Voltage	5V (±10%)
Power Consumption (*)	Read: 105 mA
	Suspend: 39 uA
Sustained R/W Performance (*)	30/20 MB per second
Operating Temperature	Commercial Grade: 0 to +70° C
Storage Temperature	Commercial Grade: -20 to +85° C
Shock resistance	2,500 G, Peak / 0.5 ms
Vibration resistance	20 G, Peak / 80 ~ 2000 Hz
Wear-Leveling	Dynamic and Static
Endurance	> 5,000,000 program/erase cycles
MTBF	> 1,600,000 hours
Size (mm)	26.5 x 37.8 x 10.6 (PCB Size)
Orientation	Horizontal

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

Ordering Information

Part No.	Product Description
SQF-UDMS1-1G-HAE	Advantech SQFlash 1 GB UDM HOR LP MOUNTING, NR, Type A
SQF-UDMS2-XG-HAE	Advantech SQFlash UDM HOR LP MOUNTING, NR, Type A, 2/4/8 GB
SQF-UDMS1-1G-HCE	Advantech SQFlash 1 GB UDM HOR LP MOUNTING, NR, Type C
SQF-UDMS2-XG-HCE	Advantech SQFlash UDM HOR LP MOUNTING, NR, Type C, 2/4/8 GB