

SQF-SDM

SATA Disk Module

SQF-PCM

Mini PCIe Disk Module

NEW



RoHS COMPLIANT
CE FCC



Features

- Vertical type SATA DOM with housing
- Compliant with SATA II and SATA v 2.6 standard
- Built-in EDC/ECC up to 15-bit 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

Specifications

Connector Type	Standard 7-pin SATA connector
Flash Type	SLC
Capacity	2 to 32GB
Transfer Mode	SATA II (3.0 Gbps)
Sustained R/W Performance (*)	4 channel: 95/50 MB/sec 2 channel: 45/25 MB/sec
Operating Temperature	Commercial grade: 0 to +70° C Industrial grade: -40 to +85° C
Shock Resistance	1500, peak / 0.5 ms
Vibration Resistance	20 G, peak / 80 ~ 2000 Hz
Endurance	> 5,000,000 program/erase cycles
MTBF	> 3,000,000 hours
Dimension (mm)	39.4 (L) x 25 (W) x 6.5 (H)

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

Ordering Information

PN	Description
Standard type (non-hook)	
SQF-SDMS2-2G-VNC	SQF SATA DOM V 2GB SLC 2-CH (0 ~ 70° C)
SQF-SDMS2-2G-VNE	SQF SATA DOM V 2GB SLC 2-CH (-40 ~ 85° C)
SQF-SDMS4-XG-VNC	SQF SATA DOM V 4/8/16/32 GB SLC 4-CH (0 ~ 70° C)
SQF-SDMS4-XG-VNE	SQF SATA DOM V 4/8/16/32 GB SLC 4-CH (-40 ~ 85° C)
Hook type	
SQF-SDMS2-2G-VHC	SQF SATA DOM VH 2GB SLC 2-CH (0 ~ 70° C)
SQF-SDMS2-2G-VHE	SQF SATA DOM VH 2GB SLC 2-CH (-40 ~ 85° C)
SQF-SDMS4-XG-VHC	SQF SATA DOM VH 4/8/16/32 GB SLC 4-CH (0 ~ 70° C)
SQF-SDMS4-XG-VHE	SQF SATA DOM VH 4/8/16/32 GB SLC 4-CH (-40 ~ 85° C)
Accessory	
SQF-SDM-SKT-01E	SATA 7PIN MALE SOCKET SDM HOOK TYPE

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Features

- Native PCI express transfer protocol without bridging
- Compliant with PCI express Gen. 2
- High random access performance
- Shock resistance, anti-vibration and low power consumption

Advantech SQFlash PCM is a mini storage module operating with native PCI express transfer protocol and fully compatible with standard Mini PCIe form factor. With wide BUS bandwidth of PCI express, the storage module is providing steadily high IOPS for both read and write. This model is especially beneficial for frequent and fragment data processing.

	PATA Interface	PCIe Interface	Δ
IOPS @4KB Write	6	4500	750 times faster

Specifications

Connector Type	Standard Mini PCIe
Flash Type	SLC / MLC
Capacity	SLC: 16 to 64GB MLC: 32 to 128GB
Transfer Mode	PCI express Gen. 2
Sustained R/W Performance (*)	SLC: 300/150 MB/sec MLC: 300/80 MB/sec
IOPS @4KB R/W (*)	SLC: 6000/4500 MLC: 6000/2500
Operation Temp	0 ~ 70° C
Mechanical Specification	Shock: 1,500G, Peak / 0.5ms; Vibration: 20G, Peak / 80 ~ 2000 Hz
Humidity	5% ~ 95%
Endurance	> 5,000,000 program/erase cycles
MTBF	> 2,000,000 hours
Dimensions (mm)	30 x 50.95 x 3.4
Environmental Regulation	RoHS Compliant

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

Ordering Information

PN	Description
SQF-PCMS4-XXG-MPC	SQF Mini PCIe DOM 16/32/64 GB SLC (0 ~ 70° C)
SQF-PCMM4-XXG-MPC	SQF Mini PCIe DOM 32/64/128 GB MLC (0 ~ 70° C)