## SQF-SDM 630 SATA III (6.0Gb) Disk Module

## SQF-SDM 530 <br> SATA III (6.0Gb) Disk Module

## NEW <br> C $\in$ FCC

## Features

- Compliant with SATA III and SATA v3.0 standard
- 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
- Supports hardware write protect


## Specifications

| Connector Type | Standard 7-pin SATA connector |
| :--- | :--- |
| Flash type | SLC / Ultra MLC / MLC |
| Capacity | SLC: 1 to 32 GB <br> Ultra MLC: 4 to 32 GB <br> MLC: 4 to 64 GB |
| Transfer Mode | SATA III $(6.0 \mathrm{Gbps})$ |
| Sustained R/W Performance (*) | SLC: up to $500 / 150 \mathrm{MB} / \mathrm{seC}$ <br> MLC: up to $250 / 100 \mathrm{MB} / \mathrm{sec}$ |
| Operating Temperature | Commercial grade: 0 to $+70^{\circ} \mathrm{C}$ <br> Industrial grade: -40 to $+85^{\circ} \mathrm{C}$ |
| Shock Resistance | $1,500 \mathrm{G}$, peak $/ 0.5 \mathrm{~ms}$ |
| Vibration Resistance | 20 G, peak $/ 80 \sim 2000 \mathrm{~Hz}$ |
| Endurance | $2,000,000$ program/erase cycles |
| Dimensions $(\mathrm{mm})$ | $44.7 \times 11.2 \times 4.2$ |

${ }^{*}$ ) These values are for reference only; they may change according to the flash memory used.

## Ordering Information

| PN | Description |
| :---: | :---: |
| SQF-SDMS1-1G-S9C(T/B) | SQFlash 630 series SATA DOM V (Top/Bottom) SLC, DMA, $1 \mathrm{~GB}\left(0 \sim 70^{\circ} \mathrm{C}\right)$ |
| SQF-SDMS1-1G-S9E(T/B) | SQFlash 630 series SATA DOM V (Top/Bottom) SLC, DMA, 1 GB (-40~85 ${ }^{\circ}$ ) |
| SQF-SDMS2-XG-S9C(T/B) | SQFlash 630 series SATA DOM V (Top/Bottom) SLC, DMA, 2/4/8/16/32 GB ( $0 \sim 70^{\circ} \mathrm{C}$ ) |
| SQF-SDMS2-XG-S9E(T/B) | SQFlash 630 series SATA DOM V (Top/Bottom) SLC, DMA, $2 / 4 / 8 / 16 / 32 \mathrm{~GB}\left(-40 \sim 85^{\circ} \mathrm{C}\right)$ |
| SQF-SDMU2-XG-S9C(T/B) | SQFlash 630 series SATA DOM V (Top/Bottom) Ulitra MLC, DMA, 4/8/16/32 GB ( $0 \sim 70^{\circ} \mathrm{C}$ ) |
| SQF-SDMU2-XG-S9E(T/B) | SQFlash 630 series SATA DOM V (Top/Bottom) Ultra MLC, DMA, 4/8/16/32 GB (-40~85 ${ }^{\circ} \mathrm{C}$ ) |
| SQF-SDMM1-4G-S9C(T/B) | SQFlash 630 series SATA DOM V (Top/Bottom) MLC, DMA, $4 \mathrm{~GB}\left(0 \sim 70^{\circ} \mathrm{C}\right)$ |
| SQF-SDMM1-4G-S9E(T/B) | SQFlash 630 series SATA DOM V (Top/Bottom) MLC, DMA, $4 \mathrm{~GB}\left(-40 \sim 85^{\circ} \mathrm{C}\right)$ |
| SQF-SDMM2-XG-S9C(T/B) | SQFlash 630 series SATA DOM V (Top/Bottom) MLC, DMA, 8/16/32/64 GB ( $0 \sim 70^{\circ} \mathrm{C}$ ) |
| SQF-SDMM2-XG-S9E(T/B) | SQFlash 630 series SATA DOM V (Top/Bottom) MLC, DMA, 8/16/32/64 GB (-40~85 ${ }^{\circ}$ ) |
| Note: X stands for different capacities |  |

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## Features

- Vertical type SATA DOM with housing
- Compliant with SATA III and SATA v3.0 standard
- Supports 40 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 | Standard 7-pin SATA connector |
| :--- | :--- |
| Flash Type | SLC / MLC |
| Capacity | SLC: 2 to 32 GB <br> MLC: 8 to 128 GB |
| Transfer Mode | SATA III $(6.0 \mathrm{Gbps})$ |
| Sustained R/W Performance ( ${ }^{*}$ ) | SLC: up to $120 / 100 \mathrm{MB} / \mathrm{sec}$ <br> MLC: up to $450 / 150 \mathrm{MB} /$ sec |
| Operating Temperature | Commercial grade: 0 to $+70^{\circ} \mathrm{C}$ <br> Industrial grade: -40 to $+85^{\circ} \mathrm{C}$ |
| Shock Resistance | 1500, peak $/ 0.5 \mathrm{~ms}$ |
| Vibration Resistance | 20 G, peak $/ 80 \sim 2000 \mathrm{~Hz}$ |
| Endurance | $2,000,000$ program/erase cycles |
| Dimensions $(\mathrm{mm})$ | $39.4(\mathrm{~L}) \times 25(\mathrm{~W}) \times 6.5(\mathrm{H})$ |

${ }^{\star}$ )These values are for reference only; they may change according to the flash memory used.

## Ordering Information

| PN | Description |
| :---: | :---: |
| SQF-SDMS2-2G-J6C | SQFlash 530 series SATA DOM V 2 GB SLC 2-CH (0 ~ 70 ${ }^{\circ} \mathrm{C}$ ) |
| SQF-SDMS2-2G-J6E | SQFlash 530 series SATA DOM V 2 GB SLC 2-CH ( $-40 \sim 85^{\circ} \mathrm{C}$ ) |
| SQF-SDMS4-XG-J6C | SQFlash 530 series SATA DOM V 4/8/16/32/64 GB SLC 4-CH (0 $\left.\sim 70^{\circ} \mathrm{C}\right)$ |
| SQF-SDMS4-XG-J6E | SQFlash 530 series SATA DOM V 4/8/16/32/64 GB SLC 4-CH (-40 $\sim 85^{\circ} \mathrm{C}$ ) |
| SQF-SDMM1-8G-J6C | SQFlash 530 series SATA DOM V 8 GB MLC 1-CH $\left(0 \sim 70^{\circ} \mathrm{C}\right)$ |
| SQF-SDMM1-8G-J6E | SQFlash 530 series SATA DOM V 8 GB MLC 1-CH (-40~85 ${ }^{\circ}$ ) |
| SQF-SDMM2-16G-J6C | SQFlash 530 series SATA DOM V 16 GB MLC 2-CH ( $0 \sim 70^{\circ} \mathrm{C}$ ) |
| SQF-SDMM2-16G-J6E | SQFlash 530 series SATA DOM V 16 GB MLC 2-CH (-40~85 C) |
| SQF-SDMM4-XG-J6C | SQFlash 530 series SATA DOM V 32/64/128 GB MLC 4-CH ( $0 \sim 70^{\circ} \mathrm{C}$ ) |
| SQF-SDMM4-XG-J6E | SQFlash 530 series SATA DOM V 32/64/128 GB MLC 4-CH ( $-40 \sim 85^{\circ} \mathrm{C}$ ) |

Note: X stands for different capacities

