# SQF-SLM
## Half-Slim SATA Module

# SQF-SLM (Extreme)
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NEW

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RoHS COMPLIANT 2002/95/EC  CE FCC

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

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## Features

- MO-297 Half-Slim SATA Module
- 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

## Features

- MO-297 Half-Slim SATA Module
- Compliant with SATA II and SATA v 2.6 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
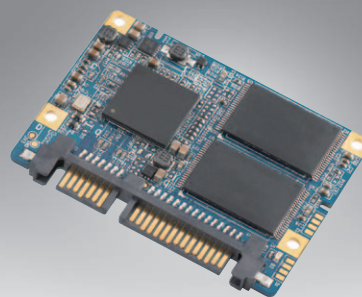- GUI management tool & software API package

## Specifications

| | |
|---|---|
| Connector Type | Standard 7+15-pin SATA connector |
| Flash type | SLC |
| Capacity | 2 to 16GB |
| Transfer Mode | SATA II (3.0 Gbps) |
| Sustained R/W Performance (*) | 4 channel: 95/50 MB/sec<br>2 channel: 45/25 MB/sec |
| Operating Temperature | Commercial grade: 0 to +70° C<br>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 |
| MTBF | > 2,000,000 hours |
| Dimension (mm) | 54.0 x 39.0 x 4.5 |

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

## Specifications

| | |
|---|---|
| Connector Type | Standard 7+15-pin SATA connector |
| Flash type | SLC / MLC |
| Capacity | SLC: 4 to 32GB<br>MLC: 4 to 64GB |
| Transfer Mode | SATA II (3.0 Gbps) |
| Sustained R/W Performance (*) | SLC: 145/100 MB/sec (32GB up to 210/175)<br>MLC: 135/90 MB/sec (64GB up to 200/175) |
| Operating Temperature | Commercial grade: 0 to +70° C<br>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 |
| MTBF | > 2,000,000 hours |
| Dimension (mm) | 54.0 x 39.0 x 4.5 |

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

## Ordering Information

| PN | Description |
|---|---|
| SQF-SLMS2-2G-R2C | Advantech SQFlash SATA Slim 2 GB SLC, 2-CH (0 ~ 70° C) |
| SQF-SLMS4-XG-R2C | Advantech SQFlash SATA Slim 4/8/16 GB SLC, 4-CH (0 ~ 70° C) |
| SQF-SLMS2-2G-R2E | Advantech SQFlash SATA Slim 2 GB SLC, 2-CH (-40 ~ 85° C) |
| SQF-SLMS4-XG-R2E | Advantech SQFlash SATA Slim 4/8/16 GB SLC, 4-CH (-40 ~ 85° C) |

## Ordering Information

| PN | Description |
|---|---|
| SQF-SLMS4-XG-S5C | Advantech SQFlash SATA Slim 4/8/16/32 GB SLC, 4-CH (0 ~ 70° C) |
| SQF-SLMS4-XG-S5E | Advantech SQFlash SATA Slim 4/8/16/32 GB SLC, 4-CH (-40 ~ 85° C) |
| SQF-SLMM4-XG-S5C | Advantech SQFlash SATA Slim 4/8/16/32/64/128 GB MLC, 4-CH (0 ~ 70° C) |
| SQF-SLMM4-XG-S5E | Advantech SQFlash SATA Slim 4/8/16/32/64/128 GB MLC, 4-CH (-40 ~ 85° C) |