

# SQF-PDM

## PATA Disk Module

# SQF-P25

## 2.5" PATA SSD



### Features

- Capacity 1GB ~ 16GB
- Supports SLC (single level cell) NAND Flash Memory
- Supports for PIO Mode 4 / Multi Word DMA Mode 2 / Ultra DMA Mode 4
- GUI Management Tool & Software API Package

### Specifications

Capacity	1 to 16GB
Flash Type	SLC
Compatibility	ATA command set
Connector Type	40-pin 2.54 mm pitch/44-pin 2.0 mm pitch Receptacle Housing Connector
Voltage	3.3 V / 5.0 V
Data Transfer Mode	PIO Mode 4 MWDMA Mode 2 UDMA Mode 4
Sustained R/W Performance (*)	40/29 MB/sec
Operation Temperature	Commercial Grade : 0 to +70° C Extended Grade : -40 to +85° C
Host interface	8/16 bit access
ECC (BCH)	Correct up to 6/12 random bits/sector
Endurance	> 2,000,000 program/erase cycles
Shock Resistance	1,500 G (0.5 msec)
Vibration Resistance	20 G, Peak / 80 ~ 2000 Hz

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

### Ordering Information

Part No.	Product Description
SQF-PDMS2-XG-HACE	Advantech SQFlash PDM 44-pin Hor. 2/4/8/16 GB, (0 ~ 70° C)
SQF-PDMS2-XG-HAEE	Advantech SQFlash PDM 44-pin Hor. 2/4/8/16 GB, (-40 ~ 85° C)
SQF-PDMS2-XG-VACE	Advantech SQFlash PDM 44-pin Vert. 2/4/8/16 GB, (0 ~ 70° C)
SQF-PDMS2-XG-VAEE	Advantech SQFlash PDM 44-pin Vert. 2/4/8/16 GB, (-40 ~ 85° C)
SQF-PDMS2-XG-HBCE	Advantech SQFlash PDM 40-pin Hor. Top 2/4/8/16 GB, (0 ~ 70° C)
SQF-PDMS2-XG-HBEE	Advantech SQFlash PDM 40-pin Hor. Top 2/4/8/16 GB, (-40 ~ 85° C)
SQF-PDMS2-XG-HCCE	Advantech SQFlash PDM 40-pin Hor. Bottom 2/4/8/16 GB, (0 ~ 70° C)
SQF-PDMS2-XG-HCEE	Advantech SQFlash PDM 40-pin Hor. Bottom 2/4/8/16 GB, (-40 ~ 85° C)
SQF-PDMS2-XG-VBCE	Advantech SQFlash PDM 40-pin Vert. 2/4/8/16 GB, (0 ~ 70° C)
SQF-PDMS2-XG-VBEE	Advantech SQFlash PDM 40-pin Vert. 2/4/8/16 GB, (-40 ~ 85° C)
SQF-PDMS1-1G-44CE	Advantech SQFlash PDM 44-pin Vert. 1 GB, Housing, (0 ~ 70° C)
SQF-PDMS2-XG-44CE	Advantech SQFlash PDM 44-pin Vert. 2/4/8/16 GB, Housing, (0 ~ 70° C)
SQF-PDMS1-1G-44EE	Advantech SQFlash PDM 44-pin Vert. 1 GB, Housing, (-40 ~ 85° C)
SQF-PDMS2-XG-44EE	Advantech SQFlash PDM 44-pin Vert. 2/4/8/16 GB, Housing, (-40 ~ 85° C)

Note: X stands for different capacities



### Features

- Capacity SLC 4 GB ~ 256 GB / MLC 16 GB ~ 512 GB
- Supports SLC (single level cell) and MLC (multi level cell) NAND Flash memory
- Supports PIO mode 4 / multi word DMA mode 2 / ultra DMA mode 4
- GUI Management Tool & Software API Package

### Specifications

Capacity	SLC: 4 to 256GB MLC: 16 to 512GB
Compatibility	ATA command set
Voltage	3.3 V / 5.0 V
Data Transfer Mode	PIO Mode 4 MWDMA Mode 2 UDMA Mode 4
Sustained R/W Performance (*)	SLC: 65/55 MB/sec MLC: 60/25 MB/sec
Operating Temperature	Commercial Grade : 0 to +70° C Industrial Grade: -40 to +85° C
Host Interface	8/16 bit access
ECC (BCH)	Correct up to 68 bit per 1K Byte
Endurance	> 2,000,000 program/erase cycles
Shock Resistance	2,500 G (0.5 msec)
Vibration Resistance	20 G, Peak / 80 ~ 2000 Hz

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

### Ordering Information

Part No.	Product Description
SQF-P25S4-XG-P9C	Advantech SQFlash 2.5" PATA SSD SLC, DMA, 4/8/16/32/64/128/256 GB (0 ~ 70° C)
SQF-P25S4-XG-P9E	Advantech SQFlash 2.5" PATA SSD SLC, DMA, 4/8/16/32/64/128/256 GB (-40 ~ 85° C)
SQF-P25M4-XG-P9C	Advantech SQFlash 2.5" PATA SSD MLC, DMA, 16/32/64/128/256/512 GB (0 ~ 70° C)
SQF-P25M4-XG-P9E	Advantech SQFlash 2.5" PATA SSD MLC, DMA, 16/32/64/128/256/512 GB (-40 ~ 85° C)

Note: X stands for different capacities