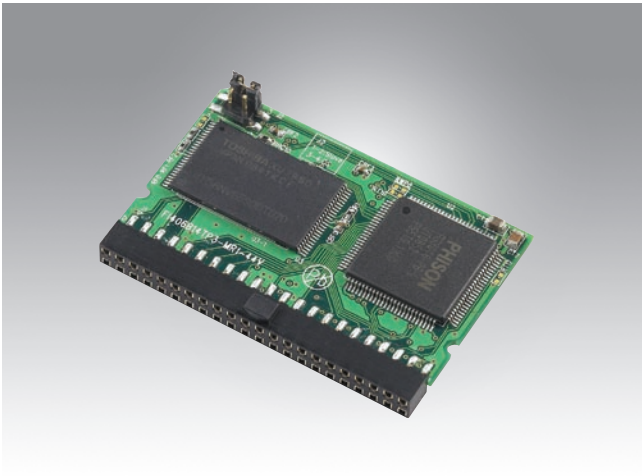# SQF-PDM Series

PATA Disk Module

Features

- Capacity 2 GB ~ 16 GB
- Support SLC (single level cell) NAND Flash Memory
- Support to PIO Mode 4/Multi Word DMA Mode 2/Ultra DMA Mode 4
- Life monitoring, software protection & flash lock

RoHS COMPLIANT 2002/95/EC CE FCC

Hardware Specifications

Capacity	2 G/4 G/8 G/16 GB
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 per second
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
MTBF	> 6,000,000 hours
Vibration resistance	20 G
Shock resistance	1,500 G (0.5 msec)

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

Software Specifications

- Product key protected GUI Management Tool
- GUI Management Tool User Interface
- Encrypted Application Programming Interface (API) support
- Security ID Read/Write and protecting sample code generator
- Life Monitoring feature to check flash health
- Flash Lock feature to freeze lock flash storage with corresponding platform

Ordering Information

Part No.	Product Description
SQF-PDMS2-XG-HACE	Advantech SQFlash PDM 44-pin Hor. (0 ~70° C) 2 GB ~ 16 GB
SQF-PDMS2-XG-HAEE	Advantech SQFlash PDM 44-pin Hor. (-40 ~ 85° C) 2 GB ~ 16 GB
SQF-PDMS2-XG-VACE	Advantech SQFlash PDM 44-pin Vert. (0 ~ 70° C) 2 GB ~ 16 GB
SQF-PDMS2-XG-VAEE	Advantech SQFlash PDM 44-pin Vert. (-40 ~ 85° C) 2 GB ~ 16 GB
SQF-PDMS2-XG-HBCE	Advantech SQFlash PDM 40-pin Hor. TOP (0 ~ 70° C) 2 GB ~ 16 GB
SQF-PDMS2-XG-HBEE	Advantech SQFlash PDM 40-pin Hor. TOP (-40 ~ 85° C) 2 GB ~ 16 GB
SQF-PDMS2-XG-HCCE	Advantech SQFlash PDM 40-pin Hor. BOT (0 ~ 70° C) 2 GB ~ 16 GB
SQF-PDMS2-XG-HCEE	Advantech SQFlash PDM 40-pin Hor. BOT (-40 ~ 85° C) 2 GB ~ 16 GB
SQF-PDMS2-XG-VBCE	Advantech SQFlash PDM 40-pin Vert. (0 ~ 70° C) 2 GB ~ 16 GB
SQF-PDMS2-XG-VBEE	Advantech SQFlash PDM 40-pin Vert. (-40 ~ 85° C) 2 GB ~ 16 GB

ADVANTECH **Embedded Core Services**

Last updated : 31-July-2009