

# SQF-P25 Series

2.5" PATA SSD



## Features

- Capacity SLC 4 GB ~ 64 GB/MLC 8 GB ~ 128 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
- Life monitoring, software protection & flash lock



## Hardware Specifications

Capacity	SLC: 4 G /8 G /16 G /32 G /64 GB MLC: 8 G /16 G /32 G /64 G/128 GB
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 per second MLC: 63 / 28 MB per second
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 6/12 random bits/sector
MTBF	>2,000,000 hours
Vibration resistance	20 G
Shock resistance	2,500 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-P25S4-4G-CTE	Advantech SQFlash P25 4 G SLC, DMA (0 ~ 70° C)
SQF-P25S4-8G-CTE	Advantech SQFlash P25 8 G SLC, DMA (0 ~ 70° C)
SQF-P25S4-16G-CTE	Advantech SQFlash P25 16 G SLC, DMA (0 ~ 70° C)
SQF-P25S4-32G-CTE	Advantech SQFlash P25 32 G SLC, DMA (0 ~ 70° C)
SQF-P25S4-64G-CTE	Advantech SQFlash P25 64 G SLC, DMA (0 ~ 70° C)
SQF-P25S4-4G-ETE	Advantech SQFlash P25 4 G SLC, DMA (-40 ~ 85° C)
SQF-P25S4-8G-ETE	Advantech SQFlash P25 8 G SLC, DMA (-40 ~ 85° C)
SQF-P25S4-16G-ETE	Advantech SQFlash P25 16 G SLC, DMA (-40 ~ 85° C)
SQF-P25S4-32G-ETE	Advantech SQFlash P25 32 G SLC, DMA (-40 ~ 85° C)
SQF-P25S4-64G-ETE	Advantech SQFlash P25 64 G SLC, DMA (-40 ~ 85° C)
SQF-P25M4-8G-CTE	Advantech SQFlash P25 8 G MLC, DMA (0 ~ 70° C)
SQF-P25M4-16G-CTE	Advantech SQFlash P25 16 G MLC, DMA (0 ~ 70° C)
SQF-P25M4-32G-CTE	Advantech SQFlash P25 32 G MLC, DMA (0 ~ 70° C)
SQF-P25M4-64G-CTE	Advantech SQFlash P25 64 G MLC, DMA (0 ~ 70° C)
SQF-P25M4-128G-CTE	Advantech SQFlash P25 128 G MLC, DMA (0 ~ 70° C)
SQF-P25M4-8G-ETE	Advantech SQFlash P25 8 G MLC, DMA (-40 ~ 85° C)
SQF-P25M4-16G-ETE	Advantech SQFlash P25 16 G MLC, DMA (-40 ~ 85° C)
SQF-P25M4-32G-ETE	Advantech SQFlash P25 32 G MLC, DMA (-40 ~ 85° C)
SQF-P25M4-64G-ETE	Advantech SQFlash P25 64 G MLC, DMA (-40 ~ 85° C)
SQF-P25M4-128G-ETE	Advantech SQFlash P25 128 G MLC, DMA (-40 ~ 85° C)