

# HERMES Series

## 1.8" PATA ZIF MLC SSD



### Product features

- 1.8" SSD form-factor in 5 mm height
- MLC - NAND type flash technology
- Parallel ATA interface
- ZIF connector
- Compatible with ATA/ATAPI-7
- Support true IDE mode
- Performance up to 93.5 MB/sec
- Capacity from 8GB up to 64GB

### Product specifications

**Compatibility** ➤ ATA/ATAPI-7 and true IDE mode

**Flash technology** ➤ MLC-NAND type flash based

**Form-factor** ➤ 1.8" SSD

**Host Interface** ➤ Parallel ATA / ZIF connector

#### Performance

Data transfer rate ➤ PIO-4 and UDMA-6

Sequential read ➤ 93.5 MB/sec (Max.)

Sequential write ➤ 69.5 MB/sec (Max.)

Average access time ➤ 0.2ms

#### Environmental specification

Operating temp. ➤ STD. 0°C ~ 70°C / IND. -40°C ~ +85°C

Non-operating temp. ➤ STD. -20°C ~ +80°C / IND. -55°C ~ +95°C

Humidity ➤ 10% - 95%

#### Power consumption

Power requirement ➤ +3.3V ± 5%

Reading mode ➤ 500mA (Max.)

Writing mode ➤ 550mA (Max.)

Sleeping mode ➤ 300mA (Max.)

#### Reliability

Wear-leveling ➤ Supports enhanced static wear-leveling algorithms

ECC ➤ Support BCH ECC 8 bits in 512 bytes

#### Physical specification

Weight (max.) ➤ 29.0g / 1.03 oz.

Dimension(W x L x H) ➤ 54.00 x 71.00 x 5.00 (mm)

**Conformal coating** ➤ Option for wide temperature

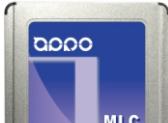
#### Warranty

Standard grade ➤ 1 year

Industrial grade ➤ 3 years

Operating temperature supports Standard grade 0°C ~ 70°C and Industrial grade -40°C ~ +85°C

### Part number list - 1.8" PATA ZIF MLC SSD

Product Picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	8GB	SP8ZF008G-JACMC-U	WP8ZF008G-JACMC-U/C
	16GB	SP8ZF016G-JACMC-U	WP8ZF016G-JACMC-U/C
	32GB	SP8ZF032G-JACMC-U	WP8ZF032G-JACMC-U/C
	64GB	SP8ZF064G-JACMC-U	WP8ZF064G-JACMC-U/C

### Remarks:

**U: defaulted as UDMA mode / Fixed disk type**

Industrial grade -40°C ~ +85°C ( With special conformal coating treatment on PCBA )

### Part number decoder

X1 X2 X3 X4 X5 X6 X7 X8 X9 — X11 X12 X13 X14 X15 — Z1 / C

### Example

S P 8 Z F 0 0 8 G — J A C M C — U

**X1** ➤ Grade

**S** : Standard grade operating temp. 0°C ~ 70°C

**W** : Industrial grade operating temp. -40°C ~ +85°C

**X12** ➤ Controller version

**A, B, C, .....**

**X13** ➤ Controller grade

**C** : Commercial grade

**X2** ➤ The material of frame kit

**P** : Plastic frame kit

**X14** ➤ Flash IC

**M** : MLC-NAND flash IC

**X3 X4 X5** ➤ Product category

**8ZF** : 1.8" PATA ZIF SSD

**X15** ➤ Flash IC grade

**C** : Commercial grade

**X6 X7 X8 X9** ➤ Capacity

**008G** : 8GB

**016G** : 16GB

**032G** : 32GB

**064G** : 64GB

**Z1** ➤ Data transfer rate

**U** : defaulted as UDMA mode / fixed disk type

**C** ➤ Reserved for specific requirement

**C** : Conformal-coating

**X11** ➤ Controller

**J** : JMicron (HERMES Series)

MLC CF

MLC CompactFlash Card

MLC CFast

MLC CFast Card

MLC ATA

MLC PCMCIA ATA Card

MLC MIF

MLC micro IDE Flash Module

MLC MSE

MLC micro SATA Flash Module

MLC MUM

MLC micro USB Module

MLC SSD

MLC Solid State Disk

MLC USB

MLC Rugged Metal USB Flash Disk

MLC SD

MLC SD & SDHC Memory Card

AD

Industrial Adapter Card-Drive

MLC CF

MLC CompactFlash Card

MLC CFast

MLC CFast Card

MLC ATA

MLC PCMCIA ATA Card

MLC MIF

MLC micro IDE Flash Module

MLC MSE

MLC micro SATA Flash Module

MLC MUM

MLC micro USB Module

MLC SSD

MLC Solid State Disk

MLC USB

MLC Rugged Metal USB Flash Disk

MLC SD

MLC SD & SDHC Memory Card

AD

Industrial Adapter Card-Drive