

HERMES Series

1.8" micro SATA II MLC SSD



Product features

- MLC - NAND type flash technology
- Capacity from 8GB up to 64GB
- 1.8" SATA SSD form-factor in 5 mm height
- Performance up to 168.3 MB/sec (Max.)
- Micro SATA 7 pins (data) + 9 pins (power) host interface
- Support static wear-leveling algorithms
- Compliant with SATA 1.0a and SATA 2.6 specification


Product specifications

- Compatibility**
- SATA 1.0a and SATA 2.6 specification compliance
- Flash technology**
- MLC-NAND type flash based
- Form-factor**
- 1.8" SATA SSD
- Host interface**
- Micro SATA II 7 pins (data) + 9 pins (power connector)
- Performance**
- Data transfer rate: Serial ATA Gen-I and II (1.5Gb/s and 3.0Gb/s)
 - Sequential read: 168.3 MB/sec (Max.)
 - Sequential write: 95.5 MB/sec (Max.)
 - Average access time: 0.1ms (estimated)
- Environmental specification**
- Operating temp.: STD. 0°C ~ 70°C / IND. -40°C ~ +85°C
 - Non-operating temp.: STD. -20°C ~ +80°C / IND. -50°C ~ +95°C
 - Humidity: 10% ~ 95% non-condensing
 - Acoustic noise: 0dB
 - Vibration: 15G compliance to MIL-STD-810F
 - Shock: 1,500G compliance to MIL-STD-810F
 - Altitude: 70,000 feet

- Power consumption**
- Power requirement: +5V ± 10%
 - Reading mode: 350mA (Max.)
 - Writing mode: 500mA (Max.)
 - Idle mode: 150mA (Max.)
- Reliability**
- Wear-leveling: Static wear-leveling algorithms
 - ECC: 8 bits per 512 bytes block
 - Endurance: Endurance management enables 5 years minimal useful life
- Physical specification**
- Weight (max.): 25g ± 2g / 0.88 oz.
 - Dimension(W x L x H): 54.00 x 78.50 x 5.00 (mm)
- Conformal coating**
- Option for wide temperature
- Warranty**
- 1 year

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

Part number list - 1.8" micro SATA II MLC SSD

Product Picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	8GB	SP8SF008G-JACMC	WP8SF008G-JACMC-C
	16GB	SP8SF016G-JACMC	WP8SF016G-JACMC-C
	32GB	SP8SF032G-JACMC	WP8SF032G-JACMC-C
	64GB	SP8SF064G-JACMC	WP8SF064G-JACMC-C

Remarks:

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 — Y

Example

S P 8 S F 0 3 2 G — J A C M C

X1 Grade

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

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

X11 Controller

J : JMicon (HERMES Series)

X12 Controller version

A,B,C,.....

X13 Controller grade

C : Commercial grade

X14 Flash IC

M : MLC-NAND flash IC

X15 Flash IC grade

C : Commercial grade

Y Reserved for specific requirement

Y : Reserved for special request

C : Conformal-coating

X2 The material of frame kit

P : Plastic frame kit

X3 X4 X5 Product category

8SF : 1.8" micro SATA II SSD

X6 X7 X8 X9 Capacity

008G : 8GB

016G : 16GB

032G : 32GB

064G : 64GB

MLC CF

MLC CompactFlash Card

MLC CFast

MLC CFast Card

MLC ATA

MLC PCMCIA ATA Card

MLC MIF

IndMeDial micro IDE Flash Module

MLC MIF

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 MIF

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