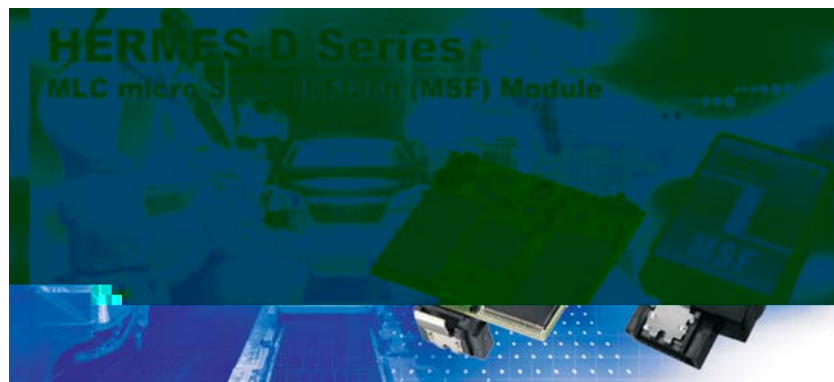


HERMES-D Series

MLC micro SATA II Flash (MSF) Module
supports Write Protect Function



Product features

- MLC - NAND type flash technology
- Maximum sequential read speed 124.0 MB/sec (Quad CH.)
- Maximum sequential write speed 73.0 MB/sec (Quad CH.)
- Standard 7 pins SATA female connector
- Support hardware switch Write Protection function
- S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology) Function and monitor software supported.
- Power request optional: Built-in power pin-7 (w/fuse) or 5V power input power cable (w/o fuse)
- Capacity from 4GB up to 128GB (Quad CH.)

Product specifications

Compatibility	<ul style="list-style-type: none"> SATA 1.0a and SATA 2.6 Specification compliance 	Write protect function	<ul style="list-style-type: none"> Mechanism design By switch
Form-factor	<ul style="list-style-type: none"> Vertical type : Standard Horizontal type: Low profile 	Power consumption	<ul style="list-style-type: none"> Power requirement 5V±10% Build-in power pin-7(w/fuse) 5V ±10% power input power cable(w/o fuse)
Flash technology	<ul style="list-style-type: none"> MLC-NAND type flash based 	Reliability	<ul style="list-style-type: none"> Wear-leveling Static wear-leveling algorithms ECC 16 bits per 512 bytes block
Host Interface	<ul style="list-style-type: none"> Standard SATA-II 7-pin (data) 	Physical specification	<ul style="list-style-type: none"> Weight 20 g (0.71 oz) Dimension(W x L x H) -VS: 25.85 x 39.40 x 8.00 (mm) -HL: 40.00 x 30.00 x 12.30 (mm)
Performance	<ul style="list-style-type: none"> Data transfer rate Serial ATA Gen-I and Gen-II Sequential read 124.0 MB/sec (Quad CH. Max.) Sequential write 73.0 MB/sec (Quad CH. Max.) Random access time 0.2ms (estimated) 	Environmental specification	<ul style="list-style-type: none"> Operating temp. STD. 0°C~70°C/W.T. -40°C~+85°C Non-operating temp. STD. -20°C~+80°C/W.T. -50°C~+95°C Humidity 10% ~ 95% non-condensing Vibration 15G compliance to MIL-STD-810F Shock 1,500G compliance to MIL-STD-810F Altitude 70,000 feet
Conformal coating	<ul style="list-style-type: none"> Option for wide temperature 	Warranty	<ul style="list-style-type: none"> 2 years

Operating temperature supports Standard grade 0°C ~ 70°C and Wide temp. Grade -40°C ~ +85°C

Part number list - MLC MSF High speed Vertical type standard form factor

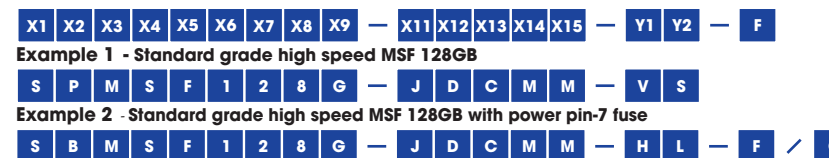
Product Picture	Capacity	0°C ~ 70°C	
	4GB	SPMSF004G-JDCMM-VS(-F)	
	8GB	SPMSF008G-JDCMM-VS(-F)	
	16GB	SPMSF016G-JDCMM-VS(-F)	
	32GB	SPMSF032G-JDCMM-VS(-F)	
	64GB	SPMSF064G-JDCMM-VS(-F)	
128GB	SPMSF128G-JDCMM-VS(-F)		
Product Picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	4GB	SBMSF004G-JDCMM-HL(-F)	WBMSF004G-JDCMM-HL(-F)
	8GB	SBMSF008G-JDCMM-HL(-F)	WBMSF008G-JDCMM-HL(-F)
	16GB	SBMSF016G-JDCMM-HL(-F)	WBMSF016G-JDCMM-HL(-F)
	32GB	SBMSF032G-JDCMM-HL(-F)	WBMSF032G-JDCMM-HL(-F)
	64GB	SBMSF064G-JDCMM-HL(-F)	WBMSF064G-JDCMM-HL(-F)
	128GB	SBMSF128G-JDCMM-HL(-F)	WBMSF128G-JDCMM-HL(-F)

Remarks:

-F: optional item power pin-7 with fuse

Wide temperature grade -40°C ~ +85°C with special conformal coating treatment on PCBA.

Part number decoder



- X1** Grade
 - S : Standard grade operating temp. 0°C~70°C
 - W : Wide temp. Grade operating temp. -40°C~+85°C
- X2** The material of casing
 - P : Plastic casing
 - B : Bare
- X3 X4 X5** Product category
 - MSF : micro SATA flash module
- X6 X7 X8 X9** Capacity
 - 004G : 4GB 032G : 32GB
 - 008G : 8GB 064G : 64GB
 - 016G : 16GB 128G : 128GB
- X11** Controller
 - J : JMicron (HERMES Series)
- X12** Controller version
 - A,B,C.....D
- X13** Controller grade
 - C : Commercial grade
- X14** Flash IC
 - M : Micron flash IC
- X15** Flash IC grade
 - M : MLC-NAND flash IC
- Y1 Y2** MSF orient only
 - VS : Vertical type standard form factor
 - HL : Horizontal type low profile form factor
- F** Reserved for specific requirement
 - F : Power pin-7 with fuse
 - C : Conformal-coating