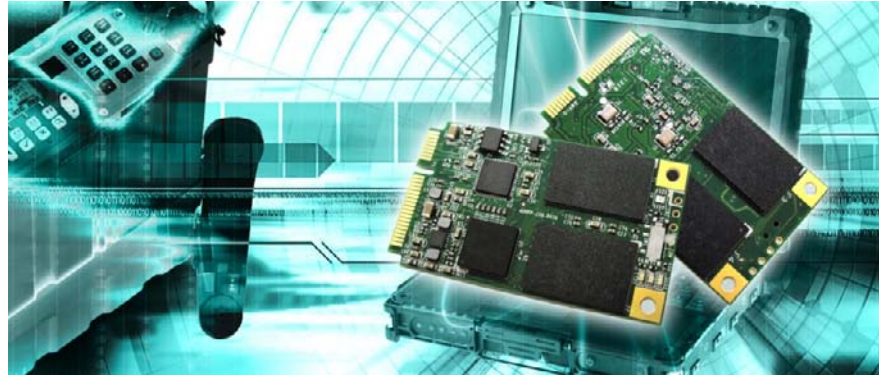


HERMES-D Series

Industrial mini PCI-e Flash (MPM) Module supports Write Protect Function



Product features

- SLC - NAND type flash technology
- Compliant with PCI Express Gen. 1
- Compact form factor for highly integrated system
- Supports standard ATA command
- Bootable for system installation
- Supports write protect function by switch
- Performance up to 140 MB/sec
- Capacity from 2GB up to 64GB

Product specifications


Compatibility	<ul style="list-style-type: none"> Compliant with PCI Express Gen. 1 Compliant with ATA/ATAPI-7 	Power consumption	<ul style="list-style-type: none"> Power requirement +3.3V ± 5% Reading mode 226 mA (Max.) Writing mode 325 mA (Max.) Idle mode 128 mA (Max.)
Flash technology	<ul style="list-style-type: none"> SLC-NAND type flash based 	Reliability	<ul style="list-style-type: none"> Wear-leveling Static wear-leveling algorithms MTBF > 4,000,000 hours ECC 12 bits per 512 bytes block Endurance > 2,000,000 cycles Data retention 10 years
Host Interface	<ul style="list-style-type: none"> mini PCI-e connector with pure 52 pins mini PCI-e pin out 	Physical specification	<ul style="list-style-type: none"> Weight (max.) 8.0 g + 1 g / 0.3 oz. Dimension(W x L x H) 51.00 x 30.00 x 3.50 (mm) Conformal coating Option for special request
Performance	<ul style="list-style-type: none"> Data transfer mode PIO-4 / MWDMA-2 / UDMA-6 compatible Sequential read 140 MB/sec (Max. /4-channel) Sequential write 122 MB/sec (Max. /4-channel) 	Warranty	<ul style="list-style-type: none"> Standard grade 3 years Industrial grade 5 years
Environmental specification	<ul style="list-style-type: none"> 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 Vibration 15 G, compliance to MIL-STD-810G Shock 1500 G, compliance to MIL-STD-810G Altitude 70,000 feet 	Write protect function	<ul style="list-style-type: none"> Mechanism design By switch

Write-protect switch



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

Part number list - Industrial mini PCI-e flash module supports write protection

Product picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	2GB	SBMPM002G-JDCSC	WBMPM002G-JDISI
	4GB	SBMPM004G-JDCSC	WBMPM004G-JDISI
	8GB	SBMPM008G-JDCSC	WBMPM008G-JDISI
	16GB	SBMPM016G-JDCSC	WBMPM016G-JDISI
	32GB	SBMPM032G-JDCSC	WBMPM032G-JDISI
	64GB	SBMPM064G-JDCSC	WBMPM064G-JDISI

Part number decoder

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

Example

S B M P M 0 6 4 G — J D C S C

X1 : Standard grade

S : Standard grade operating temp. 0°C ~ 70°C
W : Industrial grade operating temp. -40°C ~ +85°C

X2 : The material of frame kit

B : Bare (without casing)

X3 X4 X5 : Product category

MPM : mini PCI-e flash module

X6 X7 X8 X9 : Capacity

002G : 2GB **016G** : 16GB
004G : 4GB **032G** : 32GB
008G : 8GB **064G** : 64GB

X11 : Controller

J : JMicron (HERMES Series)

X12 : Controller version

A,B,C.....D

X13 : Controller grade

C : Commercial grade
I : Industrial grade

X14 : Flash IC

S : Samsung SLC-NAND flash IC

X15 : Flash IC grade

C : Commercial grade
I : Industrial grade

C : Reserved for specific requirement

C : Conformal-coating

CF Industrial CompactFlash Card

CFast Industrial CFast Card

ATA Industrial PCMCIA ATA Card

MIF Industrial micro IDE Flash Module

MSF Industrial micro SATA Flash Module

MUM Industrial micro USB Flash Module

MPM Industrial mini PCI-e Flash Module

MSM Industrial mini SATA Flash Module

SSD Industrial Solid State Disk

UED Industrial Rugged Metal USB Flash Disk

SD Industrial SD & SDHC Memory Card

AD Industrial Adapter Card-Drive

CF Industrial CompactFlash Card

CFast Industrial CFast Card

ATA Industrial PCMCIA ATA Card

MIF Industrial micro IDE Flash Module

MSF Industrial micro SATA Flash Module

MUM Industrial micro USB Flash Module

MPM Industrial mini PCI-e Flash Module

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