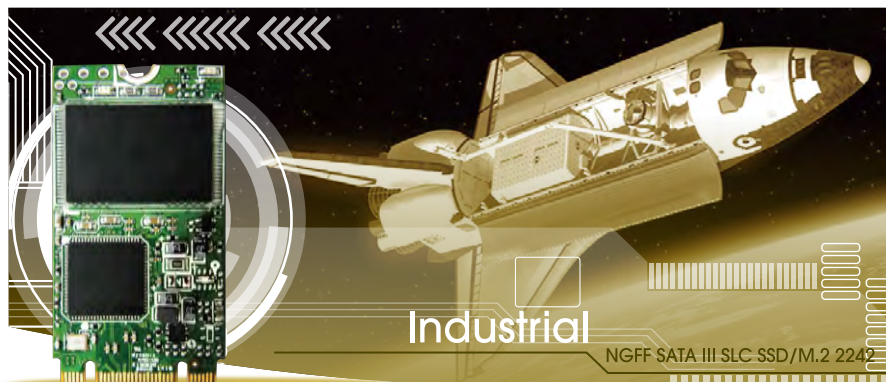


HERMES-G Series

Industrial NGFF SATA III SLC SSD/M.2 2242



PRODUCT FEATURES


- SLC - NAND type flash technology
- M.2 2242 form-factor
- Supports Windows-7 TRIM Command
- Compliant with SATA 1.0a/ 2.6/ 3.0 specification
- Maximum sequential read speed 307.1 MB/sec (Max.)
- Maximum sequential write speed 133.5 MB/sec (Max.)
- Capacity from 4GB up to 32GB

PRODUCT SPECIFICATION

Compatibility	<ul style="list-style-type: none"> ➤ SATA 1.0a, SATA 2.6 and SATA 3.0 Specification compliance 	Power consumption	<ul style="list-style-type: none"> ➤ Power requirement +5 V ± 5%
Flash technology	<ul style="list-style-type: none"> ➤ SLC-NAND type flash based 	Reading mode	<ul style="list-style-type: none"> ➤ 261 mA (Max.)
Form-factor	<ul style="list-style-type: none"> ➤ M.2 2242 	Writing mode	<ul style="list-style-type: none"> ➤ 366 mA (Max.)
Host Interface	<ul style="list-style-type: none"> ➤ Dual B + M Key 	Idle mode	<ul style="list-style-type: none"> ➤ 125 mA (Max.)
Performance		Reliability	
Data transfer rate	<ul style="list-style-type: none"> ➤ Serial ATA Gen-I, Gen-II and Gen-III (1.5Gb/s, 3.0Gb/s and 6.0Gb/s) 	Wear-leveling	<ul style="list-style-type: none"> ➤ Static wear-leveling algorithms
Sequential read	<ul style="list-style-type: none"> ➤ 133.5 MB/sec (Max.) 	MTBF	<ul style="list-style-type: none"> ➤ > 3,000,000 hours
Sequential write	<ul style="list-style-type: none"> ➤ 307.1 MB/sec (Max.) 	Endurance	<ul style="list-style-type: none"> ➤ > 2,000,000 cycles
Random access time	<ul style="list-style-type: none"> ➤ 0.1ms (estimated) 	ECC	<ul style="list-style-type: none"> ➤ 40 bits per 1024 bytes block
Environmental specification		Data retention	<ul style="list-style-type: none"> ➤ 10 Years
Operating temp.	<ul style="list-style-type: none"> ➤ STD. 0°C~70°C/W.T. -40°C~+85°C 	Physical specification	
Non-operating temp.	<ul style="list-style-type: none"> ➤ STD. -20°C~+80°C/W.T. -50°C~+95°C 	Weight	<ul style="list-style-type: none"> ➤ 8g ± 0.5g /0.28 oz.
Humidity	<ul style="list-style-type: none"> ➤ 10% ~ 95% non-condensing 	Dimension(W x L x H)	<ul style="list-style-type: none"> ➤ 22.00 x 42.00 x 3.00 (mm)
Vibration	<ul style="list-style-type: none"> ➤ 7 Hz to 2K Hz, 20G, 3 axes 	Conformal coating	<ul style="list-style-type: none"> ➤ Option for wide temperature
Shock	<ul style="list-style-type: none"> ➤ 0.5ms, 1500G, 3 axes 	Warranty	
Altitude	<ul style="list-style-type: none"> ➤ 70,000 feet 	Standard grade	<ul style="list-style-type: none"> ➤ 3 years
		Industrial grade	<ul style="list-style-type: none"> ➤ 5 years

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

Part number list - SLC NGFF SATA III SSD/M.2 2242

Product Picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	4GB	SBMDS004G-JGCTC-42(/C)	WBMDS004G-JGITI-42(/C)
	8GB	SBMDS008G-JGCTC-42(/C)	WBMDS008G-JGITI-42(/C)
	16GB	SBMDS016G-JGCTC-42(/C)	WBMDS016G-JGITI-42(/C)
	32GB	SBMDS032G-JGCTC-42(/C)	WBMDS032G-JGITI-42(/C)

PART NUMBER DECODER

X1 X2 X3 X4 X5 X6 X7 X8 X9 — X11 X12 X13 X14 X15 — Z1 Z2 / C

Example

W B M D S 0 3 2 G — J G I T I — 4 2 / C

X1 Grade

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

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

X2 The material of casing

B : Bare (without casing)

X3 X4 X5 Product category

MDS : M.2 SATA III SLC SSD

X6 X7 X8 X9 Capacity

004G : 4GB **016G** : 16GB

008G : 8GB **032G** : 32GB

X11 Controller

J : JMicron (HERMES-G Series)

X12 Controller version

A, B, C, D,....

X13 Controller grade

C : Commercial grade

I : Industrial grade

X14 Flash IC

T : Toshiba SLC-NAND flash IC

X15 Flash IC grade

C : Commercial grade

I : Industrial grade

Z1 Z2 Form Factor Type

42 : 2242 form factor

C Reserved for specific requirement

C : Conformal-coating