

Hermes series
INDUSTRIAL Rugged Metal
2.5" SATA Flash Disk

A PRO of Industrial Flash Memory Storage
www.apro-tw.com



Preliminary spec. sheet (092509-V2.3)

INDUSTRIAL
CompactFlash Card

INDUSTRIAL
PCMCIA ATA Card

INDUSTRIAL
micro IDE Flash Disk

INDUSTRIAL
Solid State Disk

INDUSTRIAL
micro SATA Flash Disk

INDUSTRIAL
Rugged USB Disk

1000X Industrial 2.5" SATA Solid State Disk
Read : 152MB/s Write : 121MB/s



HERMES Series

Compatibility :



Supported O.S. :



Certification :



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

Features:

- SLC-NAND type flash technology
- 2.5" SATA drive form-factor
- Extremely rugged metal casing to endure harsh environments
- Industrial grade capacity from 8GB up to 128GB
- Standard grade capacity from 8GB up to 128GB
- Performance up to 152MB/sec (1000X)



Specifications:

◆ Compatibility	SATA 1.0a and SATA 2.6 specification compliance
◆ Flash Technology	NAND type SLC flash based
◆ Form-factor	Rugged Metal 2.5" SATA hard disk drive form-factor
◆ Host Interface	SATA 7-pin (data) + 15-pin (power connector)
◆ Performance	
• Data transfer rate	Serial ATA Gen-I and II (1.5Gb/s and 3.0Gb/s)
• Sequential read	152 MB/sec (Typ.)
• Sequential write	121 MB/sec (Typ.)
• Average access time	0.2ms (estimated)
◆ Environmental specification	
• Operating temperature	Standard grade 0°C ~ 70°C / Industrial Grade -40°C ~ 85°C
• Non-operating temperature	Standard grade -20°C ~ 80°C / Industrial Grade -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

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◆ Power consumption

- Power requirement +5V ± 10%
- Reading mode 200mA(Max.)
- Writing mode 360mA(Max.)
- Sleeping mode 120mA(Max.)

◆ Reliability

- Wear-leveling Static wear-leveling algorithms
- MTBF > 3,000,000 hours
- ECC Enhanced management 6-bits per 512bytes block
- Endurance > 2,000,000 cycles logically contributed by static wear-leveling and advanced bad sector management algorithms
- Data reliability < 1 non-recoverable error in 10¹⁴ bits read
- Data retention 10 years

◆ Physical specification

- Weight (max.) 115g ± 5g /4.06oz
- Dimension(W x L x H) 69.85 x 100.20 x 9.50 (mm)

◆ Conformal coating

Option for special request

◆ Warranty

- Standard grade 3 years
- Industrial grade 5 years

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Part number list – 2.5" Rugged metal casing

Product Picture	Capacity	0° C~70° C	-40° C~85° C
	8GB	SR2SF008G-JACSC	WR2SF008G-JAISI
	16GB	SR2SF016G-JACSC	WR2SF016G-JAISI
	32GB	SR2SF032G-JACSC	WR2SF032G-JAISI
	64GB	SR2SF064G-JACSC	WR2SF064G-JAISI
	128GB	SR2SF128G-JACSC	WR2SF128G-JAISI

Part number decoder :

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

X1 : Grade

S : Standard Grade – operating temp. 0° C ~ 70° C

W : Industrial Grade – operating temp. -40° C ~ 85° C

X13 : Controller grade

C : Commercial grade

I : Industrial grade

X2 : The material of case

R : 2.5" Rugged metal Casing

X14 : Flash IC

S : Samsung SLC-NAND Flash IC

X3 X4 X5 : Product category

2SF : 2.5" SATA Flash Disk

X15 : Flash IC grade / Type

C : Commercial grade

I : Industrial grade

X6 X7 X8 X9 : Capacity

008G:	8GB	064G:	64GB
016G:	16GB	128G:	128GB
032G:	32GB		

C : Reserved for specific requirement

C : Conformal-coating

X11 : Controller

J : JMicron (Hermes Series)

X12 : Controller version

A,B,C.....

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