MUSE-B Series

Industrial Metal 2.5" SATA III SLC SSD supports DDRIII SDRAM Cache



CFast Industrial CFast Card

ATA Industrial PCMCIA AT. Card

Industrial micro IDE Flas Module

Industrial micro SATA Flas Module

Industrial micro USB Flast Module

Industrial mini PCI-e Flas Module

Industrial mini SATA Flasi Module



USB Flash Di

AD Industria Adapter



Product features

- SLC NAND type flash technology
- 2.5" SATA SSD form-factor
- Supports Windows-7 TRIM Command
- Supports Native Command Queuing (NCQ) command
- High performance of random write IOPS, up to 20K.
- Maximum sequential read speed 475 MB/sec (AHCI mode)
- Maximum sequential write speed 356 MB/sec (AHCI mode)
- Capacity from 32GB up to 128GB

Product specifications

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Compatibility	SATA 1.0a, SATA 2.6 and SATA 3.0	Power consumption		
	Specification compliance	Power requirement	▶ +5V ± 10%	
Flash technology	SLC-NAND type flash based	Reading mode	290 mA (Max.)	
Form-factor	Metal 2.5" SATA SSD	Writing mode	380 mA (Max.)	
Host Interface	SATA 7-pin (data) + 15-pin (power)	Idle mode	▶ 70 mA (Max.)	
Performance		Reliability		
Cache buffer	DDRIII SDRAM 128MB	Wear-leveling	Global wear-leveling algorithms	
Data transfer rate	Serial ATA Gen-I, Gen-II and Gen-III	MTBF	> 1,500,000 hours	
Sequential read	540.4 MB/sec (AHCI mode, max.)	Endurance	> 2,000,000 cycles	
Sequential write	444.2 MB/sec (AHCI mode, max.)	ECC	48 bits per 2K bytes block	
4K Random IOPS	Read: 20K / Write: 18K	Data retention	▶ 10 Years	
Random access time > 0.2ms (estimated)		Physical specification		
		Weight	▶ 73 g ± 5 g /2.57 oz.	
Environmental specification		Dimension(W x L x H)	• 69.90 x 99.90 x 9.50 (mm)	
Operating temp.	I STD. 0°C~70°C/W.T40°C~+85°C	Conformal coating	Option for special request	
Non-operating temp	. \$\ \text{STD20\circ} \text{C}\times \text{80\circ} \text{C/W.T50\circ} \text{C}\times \text{+95\circ} \text{C}	Warranty		
Humidity	10% ~ 95% non-condensing	Standard grade	3 years	
Vibration	15G compliance to MIL-STD-810F	Industrial grade	5 years	
Shock	1,500G compliance to MIL-STD-810F			
Altitude	70,000 feet			

Advanced Performance & Rugged Orientation



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

Part number list - Industrial 2.5" metal SATA III SLC SSD MUSE-B Series

Product Picture	Capacity	0° C ~ 70° C	-40° C ~ +85° C
	32GB	SM2SR032G-VBCTC(/C)	WM2SR032G-VBITI(/C)
DODO FLASH SSD	64GB	SM2SR064G-VBCTC(/C)	WM2SR064G-VBITI(/C)
12.31.325	128GB	SM2SR128G-VBCTC(/C)	WM2SR128G-VBITI(/C)

Part number decoder



X1 : Grade

C: Commercial grade

X15 🕻 Flash IC grade

Reserved for specific requirement

C: Commercial grade

C: Conformal-coating

I: Industrial grade

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

X2 > The material of casing

M: Metal casing

X14 : Flash IC

T : Toshiba SLC-NAND flash IC

X3 X4 X5 Product category

2SR: 2.5" SATA III SSD supports DDRIII SDRAM 128MB as cache

\$: Standard grade operating temp. 0° C ~ 70 ° C

X6 X7 X8 X9 : Capacity

032G: 32GB **064G**: 64GB **128G**: 128GB

X11 : Controller

V: MUSE Series

X12 : Controller version

A,B,C....

CF Industrial CompactFlas Card

CFast Industrial CFast Card

ATA
Industrial
PCMCIA ATA

Industrial licro IDE Flash Module

MSF Industrial icro SATA Flash Module

Industrial micro USB Flash Module

MPM Industrial mini PCI-e Flash Module

> Industrial Inini SATA Flash Module



UFD Industrial Rugged Meta USB Flash Disk

> SD Industrial D & SDHC Emory Card

AD ndustrial Adapter