

MUSE-D Series

MLC 2.5" Rugged Metal SATA III SSD



Product Feature

- MLC - NAND type flash technology
- Thermal Monitor for SSD's temperature
- S.M.A.R.T. supported
- RoHS & REACH compliant
- Capacity from 8GB up to 256GB

Product Specification

Compatibility

- SATA 1.0a, SATA 2.6 and SATA 3.0 Specification compliance

Flash technology

- MLC-NAND type flash memory

Form-factor

- Rugged Metal 2.5" SATA SSD

Host Interface

- SATA 7-pin (data) + 15-pin (power)

Performance

- Data transfer rate ■ SATA 1.5Gb/s, 3.0Gb/s, 6.0Gb/s
- Sequential read ■ 530 MB/sec (Max.)
- Sequential write ■ 210 MB/sec (Max.)
- 4KB random read ■ 32K IOPS
- 4KB random write ■ 30K IOPS

Environmental specification

- 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

Conformal coating

- Option for wide temperature
- Humidity ■ 10% ~ 95% non-condensing
- Vibration ■ 7 Hz to 2K Hz, 20G, 3 axes
- Shock ■ 0.5ms, 1500G, 3 axes
- Altitude ■ 70,000 feet

Power consumption

- Power requirement ■ +5V ± 5%
- Reading mode ■ 93 mA (Max.)
- Writing mode ■ 160 mA (Max.)
- Idle mode ■ 90 mA (Max.)

Reliability

- Wear-leveling ■ Static wear-leveling algorithms
- Erase counts ■ Up to 3,000 times
- ECC ■ Hardware design LDPC (Low Density Parity Check)

Physical specification

- Weight ■ 115g ± 5g / 3.7 oz.
- Dimension(W x L x H) ■ 69.90 x 100.0 x 7.00 (mm)

Warranty

- MLC(standard/wide temp.) ■ 2 years or within 3k Erasing counts

Part Number List

Product Picture	Capacity	0°C ~ 70°C	- 40°C ~ + 85°C
	8GB	SR7SF008G-VDCTM-(T)	WR7SF008G-VDCTM-(T)C
	16GB	SR7SF016G-VDCTM-(T)	WR7SF016G-VDCTM-(T)C
	32GB	SR7SF032G-VDCTM-(T)	WR7SF032G-VDCTM-(T)C
	64GB	SR7SF064G-VDCTM-(T)	WR7SF064G-VDCTM-(T)C
	128GB	SR7SF128G-VDCTM-(T)	WR7SF128G-VDCTM-(T)C
	256GB	SR7SF256G-VDCTM-(T)	WR7SF256G-VDCTM-(T)C

Part Number Decoder

X1 X2 X3 X4 X5 X6 X7 X8 X9 — X11 X12 X13 X14 X15 — X17 X18 X19 X20

Example ▶

W R 7 S F 2 5 6 G — V D C T M — C

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

R : Rugged metal casing

X3 X4 X5 Product category

7SF : 2.5" height 7 mm SATA III SSD

X6 X7 X8 X9 Capacity

008G : 8GB **064G** : 64GB

016G : 16GB **128G** : 128GB

032G : 32GB **256G** : 256GB

X11 Controller

V : MUSE Series

X12 Controller version

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

X13 Controller grade

C : Commercial grade

X14 Flash IC brand

T : Toshiba flash IC

X15 Flash IC type

M : MLC-NAND flash IC

X17 X18 X19 X20 Reserved for specific requirement

Blank : Standard product w/o thermal sensor and conformal-coating

T : Thermal Sensor.

C : Conformal coating for wide temp. grade