

HERCULES-PB Series

MLC USB 2.0 Flash Disk Generation 5L



Product Feature

- MLC - NAND type flash technology
- Semi-metal casing design
- Comply with Microsoft Vista Ready-Boost® requirements
- RoHS & REACH compliant
- Capacity from 64GB and 128GB

Product Specification

Compatibility

- USB 2.0 Hi-Speed and USB1.1 Full Speed compatible interface

Flash technology

- MLC-NAND type flash memory

Performance

Data transfer rate ■ USB 2.0 supports transfer rates up to 480 Mbps (60MB/s)

Sequential read ■ 25.6 MB/sec (Max.)

Sequential write ■ 17.3 MB/sec (Max.)

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

Humidity ■ 85% / 95% RH Non-Operating

Vibration ■ 70 Hz to 2K Hz, 15G, 3 axes

Shock ■ 0.5ms, 1500G, 3 axes

Altitude ■ 70,000 feet

OS supported

- Windows series Embedded O.S. Linux, VxWorks and DOS

Power consumption

Power requirement ■ 5V ± 10% via USB port

Reading mode ■ 81.9 mA (Max.)

Writing mode ■ 103.0 mA (Max.)

Idle mode ■ 60.9 mA (Max.)

Reliability

Wear-leveling ■ Static wear-leveling algorithms

ECC ■ 72 bits per 1024 bytes block

Physical specification


Weight ■ 20 g ± 1 g / 0.70 oz.

Dimension(W x L x H) ■ 50.70 x 17.20 x 7.80 (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
	64GB	SMUFD064G-MPBTMB-5L	WMUFD064G-MPBTMB-5LC
	128GB	SMUFD128G-MPBTMB-5L	WMUFD128G-MPBTMB-5LC

Part Number Decoder

X1 X2 X3 X4 X5 X6 X7 X8 X9 — X11 X12 X13 X14 X15 X16 — X18 X19 X20

Example ▶

W M U F D 1 2 8 G — M P B T M B — 5 L 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

M : Semi-metal casing

X3 X4 X5 Product category

UFD : USB flash disk

X6 X7 X8 X9 Capacity

064G : 64GB

128G : 128GB

X11 Controller

M : HERCULES Series

X12 X13 Controller version

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

X14 Flash IC brand

T : Toshiba flash IC

X15 Flash IC type

M : MLC-NAND

X16 MLC Technology

B : Toshiba 15nm MLC

X18 X19 Housing Generation

5L : Generation 5 housing long type

X20 Conformal coating

C : Conformal coating for wide temp. grade