

HERCULES-PB Series

MLC USB 2.0 Flash Disk Generation 4SB / IP-54 & IP-68



Product Feature

- MLC - NAND type flash technology
- IP-54 & IP-68 Waterproof metal casing design
- Rugged Metal Casing with screw thread to fix cap
- Aluminum and electroplated in black
- Complies with Microsoft Vista Ready-Boost® requirements
- RoHS & REACH compliant
- Capacity from 4GB up to 64GB

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 ■ 25.5 MB/sec (Max.)

Sequential write ■ 19.1 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 ■ 25 g ± 3 g / 0.88 oz.

Dimension(W x L x H) ■ 54.82 x 15.95 x 15.95 (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
	4GB	SRUFD004G-MPBTMB-4SB	WRUFD004G-MPBTMB4SBC
	8GB	SRUFD008G-MPBTMB-4SB	WRUFD008G-MPBTMB4SBC
	16GB	SRUFD016G-MPBTMB-4SB	WRUFD016G-MPBTMB4SBC
	32GB	SRUFD032G-MPBTMB-4SB	WRUFD032G-MPBTMB4SBC
	64GB	SRUFD064G-MPBTMB-4SB	WRUFD064G-MPBTMB4SBC

Part Number Decoder

X1 X2 X3 X4 X5 X6 X7 X8 X9 — X11 X12 X13 X14 X15 X16 X17 X18 X19 X20

Example ▶

W R U F D 0 6 4 G — M P B T M B 4 S B 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

UFD : USB flash disk

X6 X7 X8 X9 Capacity

004G : 4GB 032G : 32GB
 008G : 8GB 064G : 64GB
 016G : 16GB

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

X17 X18 X19 Housing Generation

4SB : Generation 4 housing Screw Thread Black

X20 Reserved for specific requirement

C : Conformal coating for wide temp. grade