

HERCULES-PB Series

MLC USB 2.0 Flash Disk Generation 5




Product Feature

- MLC - NAND type flash technology
- Semi-metal casing design
- Comply with Microsoft Vista Ready-Boost® requirements
- RoHS & REACH compliant
- Capacity from 4GB up to 64GB

Product Specification

Compatibility	<ul style="list-style-type: none"> ▶ USB 2.0 Hi-Speed and USB1.1 Full Speed compatible interface 	Power consumption	<ul style="list-style-type: none"> ▶ 5V \pm 10% via USB port
Flash technology	<ul style="list-style-type: none"> ▶ MLC-NAND type flash memory 	Power requirement	<ul style="list-style-type: none"> ▶ 81.9 mA (Max.)
Performance		Reading mode	<ul style="list-style-type: none"> ▶ 103.0 mA (Max.)
Data transfer rate	<ul style="list-style-type: none"> ▶ USB 2.0 supports transfer rates up to 480 Mbps (60MB/s) 	Writing mode	<ul style="list-style-type: none"> ▶ 60.9 mA (Max.)
Sequential read	<ul style="list-style-type: none"> ▶ 25.5 MB/sec (Max.) 	Idle mode	
Sequential write	<ul style="list-style-type: none"> ▶ 19.1 MB/sec (Max.) 	Reliability	
Environmental specification		Wear-leveling	<ul style="list-style-type: none"> ▶ Static wear-leveling algorithms
Operating temp.	<ul style="list-style-type: none"> ▶ STD. 0°C~70°C/W.T. -40°C~+85°C 	ECC	<ul style="list-style-type: none"> ▶ 72 bits per 1024 bytes block
Non-operating temp.	<ul style="list-style-type: none"> ▶ STD. -20°C~+80°C/W.T. -50°C~+95°C 	Physical specification	
Humidity	<ul style="list-style-type: none"> ▶ 85% / 95% RH Non-Operating 	Weight	<ul style="list-style-type: none"> ▶ 15 g \pm 1 g / 0.53 oz.
Vibration	<ul style="list-style-type: none"> ▶ 70 Hz to 2K Hz, 15G, 3 axes 	Dimension(W x L x H)	<ul style="list-style-type: none"> ▶ 47.20 x 17.20 x 7.80 (mm)
Shock	<ul style="list-style-type: none"> ▶ 0.5ms, 1500G, 3 axes 	Warranty	
Altitude	<ul style="list-style-type: none"> ▶ 70,000 feet 	MLC(standard/wide temp.)	<ul style="list-style-type: none"> ▶ 2 years or within 3K Erasing counts
OS supported	<ul style="list-style-type: none"> ▶ Windows series Embedded O.S. Linux, VxWorks and DOS 		
Functionality	<ul style="list-style-type: none"> ▶ Supports auto-run function ▶ A bootable disk for system recovery ▶ Supports partition management, password and security 		

Part Number List

Product Picture	Capacity	0°C ~ 70°C	- 40°C ~ + 85°C
	4GB	SMUFD004G-MPBTMB-5	WMUFD004G-MPBTMB-5C
	8GB	SMUFD008G-MPBTMB-5	WMUFD008G-MPBTMB-5C
	16GB	SMUFD016G-MPBTMB-5	WMUFD016G-MPBTMB-5C
	32GB	SMUFD032G-MPBTMB-5	WMUFD032G-MPBTMB-5C
	64GB	SMUFD064G-MPBTMB-5	WMUFD064G-MPBTMB-5C

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 0 6 4 G — M P B T M B — 5 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

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

X18 Housing Generation

5 : Generation 5 housing

X19 X20 Reserved for specific requirement

C : Conformal coating for wide temp. grade