

HERCULES-PB Series

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




Product Feature

- SLC - 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
- Comply with Microsoft Vista Ready-Boost® requirements
- RoHS & REACH compliant
- Capacity from 128MB up to 16GB

Product Specification

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| <p>Compatibility</p> <ul style="list-style-type: none"> ■ USB 2.0 Hi-Speed and USB1.1 ■ Full Speed compatible interface <p>Flash technology</p> <ul style="list-style-type: none"> ■ SLC-NAND type flash memory <p>Performance</p> <p>Data transfer rate</p> <ul style="list-style-type: none"> ■ USB 2.0 supports transfer rates up to 480 Mbps (60MB/s) <p>Sequential read</p> <ul style="list-style-type: none"> ■ 27.5 MB/sec (Max.) <p>Sequential write</p> <ul style="list-style-type: none"> ■ 23.9 MB/sec (Max.) <p>Environmental specification</p> <p>Operating temp.</p> <ul style="list-style-type: none"> ■ STD. 0°C~70°C/IND.-40°C~+85°C <p>Non-operating temp.</p> <ul style="list-style-type: none"> ■ STD. -20°C~+80°C/IND.-50°C~+95°C <p>Humidity</p> <ul style="list-style-type: none"> ■ 85% / 95% RH Non-Operating <p>Vibration</p> <ul style="list-style-type: none"> ■ 70 Hz to 2K Hz, 15G, 3 axes <p>Shock</p> <ul style="list-style-type: none"> ■ 0.5ms, 1500G, 3 axes <p>Altitude</p> <ul style="list-style-type: none"> ■ 70,000 feet <p>OS supported</p> <ul style="list-style-type: none"> ■ Windows series Embedded O.S. Linux, VxWorks and DOS <p>Functionality</p> <ul style="list-style-type: none"> ■ Support auto-run function ■ A bootable disk for system recovery ■ Support partition management, password and security | <p>Power consumption</p> <p>Power requirement</p> <ul style="list-style-type: none"> ▶ 5V ± 10% via USB port <p>Reading mode</p> <ul style="list-style-type: none"> ▶ 120.0 mA (Max.) <p>Writing mode</p> <ul style="list-style-type: none"> ▶ 139.0 mA (Max.) <p>Idle mode</p> <ul style="list-style-type: none"> ▶ 75.0 mA (Max.) <p>Reliability</p> <p>Wear-leveling</p> <ul style="list-style-type: none"> ▶ Static wear-leveling algorithms <p>MTBF</p> <ul style="list-style-type: none"> ▶ > 3,000,000 hours <p>Erase counts</p> <ul style="list-style-type: none"> ▶ Up to 60,000 times <p>ECC</p> <ul style="list-style-type: none"> ▶ 72 bits per 1024 bytes block <p>Physical specification</p> <p>Weight</p> <ul style="list-style-type: none"> ▶ 25 g ± 3 g / 0.88 oz. <p>Dimension(W x L x H)</p> <ul style="list-style-type: none"> ▶ 54.82 x 15.95 x 15.95 (mm) <p>Conformal coating</p> <ul style="list-style-type: none"> ▶ Optional <p>Warranty</p> <p>STD Grade SLC</p> <ul style="list-style-type: none"> ▶ 3 years or within 60K Erasing counts <p>IND Grade SLC</p> <ul style="list-style-type: none"> ▶ 5 years or within 60K Erasing counts |
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Part Number List

Product Picture	Capacity	0°C ~ 70°C	- 40°C ~ + 85°C
	128MB	SRUFD128M-MPBTC-4SB	WRUFD128M-MPBTI-4SB
	256MB	SRUFD256M-MPBTC-4SB	WRUFD256M-MPBTI-4SB
	512MB	SRUFD512M-MPBTC-4SB	WRUFD512M-MPBTI-4SB
	1GB	SRUFD001G-MPBTC-4SB	WRUFD001G-MPBTI-4SB
	2GB	SRUFD002G-MPBTC-4SB	WRUFD002G-MPBTI-4SB
	4GB	SRUFD004G-MPBTC-4SB	WRUFD004G-MPBTI-4SB
	8GB	SRUFD008G-MPBTC-4SB	WRUFD008G-MPBTI-4SB
	16GB	SRUFD016G-MPBTC-4SB	WRUFD016G-MPBTI-4SB

Part Number Decoder

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

Example ▶

W R U F D 0 1 6 G — M P B T I — 4 S B

X1 Grade

S : Standard grade operating temp. 0° C~70 ° C
W : Industrial 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

128M : 128MB **002G** : 2GB
256M : 256MB **004G** : 4GB
512M : 512MB **008G** : 8GB
001G : 001GB **016G** : 16GB

X11 Controller

M : HERCULES Series

X12 X13 Controller version

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

X14 Flash IC brand

T : Toshiba SLC-NAND flash IC

X15 Flash IC grade

C : Commercial grade
I : Industrial grade

X17 X18 X19 Housing Generation

4SB : Generation 4 housing , Screw Thread Black

X20 Reserved for specific requirement

C : Conformal coating (optional)