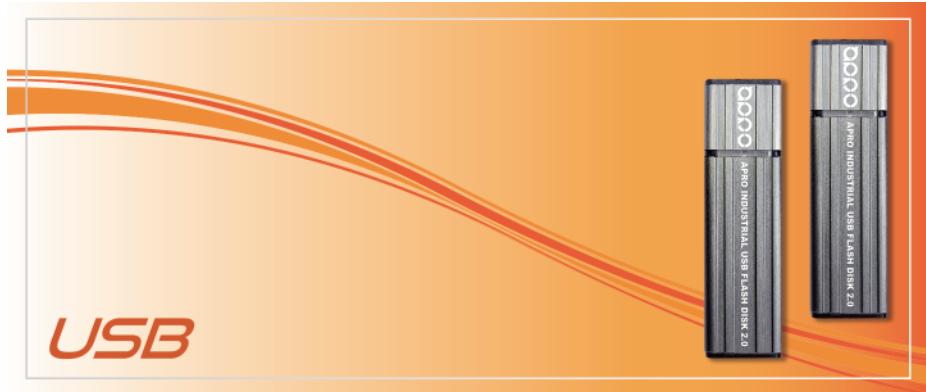


HERMIT-C Series

Industrial SLC USB 2.0 Flash Disk Generation 3L



Product Feature

- SLC - NAND type flash technology
- Semi-metal casing design
- Ultra high random read / write speed
- S.M.A.R.T. supported
- RoHS & REACH compliant
- Capacity from 128MB up to 32GB

Product Specification

Compatibility ▶ USB 2.0 and USB 1.1 backwards Compatible

Flash technology ▶ SLC-NAND type flash memory

Performance

Random read ▶ 4.9MB/sec (max.)

Random write ▶ 3.9MB/sec (max.)

Sequential read ▶ 25.5 MB/sec (max.)

Sequential write ▶ 18.5 MB/sec (max.)

Environmental specification

Operating temp. ▶ STD. 0°C~70°C/IND. -40°C~+85°C

Non-operating temp. ▶ STD. -20°C~+80°C/IND. -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±5% via USB port

Reading mode ▶ 77.2 mA(Max.)

Writing mode ▶ 83.4 mA(Max.)

Idle mode ▶ 35.2 mA(Max.)

Reliability

Wear-leveling ▶ Static wearLeveling algorithms

MTBF ▶ > 3,000,000 hours

Erase counts ▶ Up to 60,000 times

ECC ▶ 96 Bit/1KB BCH ECC engine

Physical specification

Weight ▶ 15 g ± 1g / 0.53 oz.

Dimension(W x L x H) ▶ 60.0 x 17.6 x 8.4 (mm)


Conformal coating ▶ Optional

Warranty

STD Grade SLC ▶ 3 years or within 60K Erasing counts

IND Grade SLC ▶ 5 years or within 60K Erasing counts

Part Number List

Product Picture	Capacity	0°C ~ 70°C	- 40°C ~ + 85°C
	128MB	SMUFD128M-HCCTC-3L	WMUFD128M-HCITI-3L
	256MB	SMUFD256M-HCCTC-3L	WMUFD256M-HCITI-3L
	512MB	SMUFD512M-HCCTC-3L	WMUFD512M-HCITI-3L
	1GB	SMUFD001G-HCCTC-3L	WMUFD001G-HCITI-3L
	2GB	SMUFD002G-HCCTC-3L	WMUFD002G-HCITI-3L
	4GB	SMUFD004G-HCCTC-3L	WMUFD004G-HCITI-3L
	8GB	SMUFD008G-HCCTC-3L	WMUFD008G-HCITI-3L
	16GB	SMUFD016G-HCCTC-3L	WMUFD016G-HCITI-3L
	32GB	SMUFD032G-HCCTC-3L	WMUFD032G-HCITI-3L

Part Number Decoder

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

Example ▶

W M U F D 0 3 2 G — H C I T I — 3 L

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

M : Semi-metal casing

X3 X4 X5 Product category

UFD : USB flash disk

X6 X7 X8 X9 Capacity

128M : 128MB **004G** : 4GB

256M : 256MB **008G** : 8GB

512M : 512MB **016G** : 16GB

001G : 1GB

032G : 32GB

002G : 2GB

X11 Controller

H : HERMIT Series

X12 Controller version

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

X13 Controller grade

C : Commercial grade

I : Industrial grade

X14 Flash IC brand

T : Toshiba SLC-NAND flash IC

X15 Flash IC grade

C : Commercial grade

I : Industrial grade

X17 X18 Housing Generation

3L : Generation 3 housing long type

X19 X20 Reserved for specific requirement

C : Conformal coating (optional)