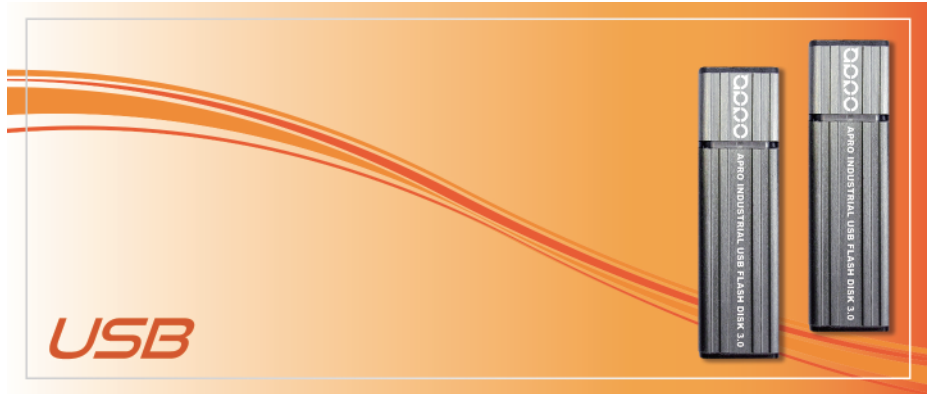


HERMIT-E Series

Industrial SLC USB 3.1 Flash Disk Generation 3EL



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 64GB

Product Specification

Compatibility ▶ USB 3.0 and USB 3.1 backwards Compatible

Flash technology ▶ SLC-NAND type flash memory

Performance

4KB random read ▶ 14 MB/sec (max.)

4KB random write ▶ 11.6 MB/sec (max.)

Sequential read ▶ 176 MB/sec (max.)

Sequential write ▶ 108 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 ▶ 190 mA(Max.)

Writing mode ▶ 170 mA(Max.)

Idle mode ▶ 39 mA(Max.)

Reliability

Wear-leveling ▶ Static wearLeveling algorithms

MTBF ▶ > 2,000,000 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) ▶ 62.1 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-HECTC-3EL	WMUFD128M-HEITI-3EL
	256MB	SMUFD256M-HECTC-3EL	WMUFD256M-HEITI-3EL
	512MB	SMUFD512M-HECTC-3EL	WMUFD512M-HEITI-3EL
	1GB	SMUFD001G-HECTC-3EL	WMUFD001G-HEITI-3EL
	2GB	SMUFD002G-HECTC-3EL	WMUFD002G-HEITI-3EL
	4GB	SMUFD004G-HECTC-3EL	WMUFD004G-HEITI-3EL
	8GB	SMUFD008G-HECTC-3EL	WMUFD008G-HEITI-3EL
	16GB	SMUFD016G-HECTC-3EL	WMUFD016G-HEITI-3EL
	32GB	SMUFD032G-HECTC-3EL	WMUFD032G-HEITI-3EL
64GB	SMUFD064G-HECTC-3EL	WMUFD064G-HEITI-3EL	

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 6 4 G — H E I T I — 3 E 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 064G : 64GB

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 X19 Housing Generation

3EL : Generation 3 housing extra long type

X20 Reserved for specific requirement

C : Conformal coating (optional)