



Features

- MLC-NAND flash technology
- Semi-metal casing design
- Ultra-high random read/write speed
- Support S.M.A.R.T. command set and utility
- Customized logo by laser carving (MOQ requested)
- Capacities from 8GB up to 512GB

Specification

- **Compatibility** USB 3.1
- **Declarations** RoHS & REACH compliant
- **Flash technology** MLC-NAND flash technology
- **Form-factor** Pen drive
- **Host interface** 9 pins USB 3.0 Type A connector
- **Performance**
 - **Data transfer rate** FullSpeed, HighSpeed and SuperSpeed
 - **Sequential read** 97 MB/sec (Max.)
 - **Sequential write** 60.2 MB/sec (Max.)
 - **4KB random read** 11.3 MB/sec (Max.)
 - **4KB random write** 6.4 MB/sec (Max.)
- **Environmental**
 - **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** 10%~95% non-condensing
 - **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** 167.7 mA(Max.)
 - **Writing mode** 189 mA(Max.)
 - **Idle mode** 42.8 mA(Max.)
- **Reliability**
 - **Wear-leveling** Dynamic, Static and Global wear-leveling algorithms
 - **TBW** Up to 125 TBW at 512GB Capacity (Client workload by JESD-219A)
 - **Erase counts** Up to 3,000 times
 - **ECC** 96 bits per 1024 bytes block
- **Physical specification**
 - **Weight (Max.)** 15g
 - **Dimension (WxLxH)** 17.60 x 62.10 x 8.40 (mm).
 - **Conformal coating** Optional
- **Warranty** 2 years or within 3,000 erasing counts

Part Number List

Capacity	0°C~+70°C	Capacity	-40°C~+85°C
8GB	SMUFD008G-HECTMB3EL	8GB	WMUFD008G-HECTMB3ELC
16GB	SMUFD016G-HECTMB3EL	16GB	WMUFD016G-HECTMB3ELC
32GB	SMUFD032G-HECTMB3EL	32GB	WMUFD032G-HECTMB3ELC
64GB	SMUFD064G-HECTMB3EL	64GB	WMUFD064G-HECTMB3ELC
128GB	SMUFD128G-HECTMB3EL	128GB	WMUFD128G-HECTMB3ELC
256GB	SMUFD256G-HECTMB3EL	256GB	WMUFD256G-HECTMB3ELC
512GB	SMUFD512G-HECTMB3EL	512GB	WMUFD512G-HECTMB3ELC

Part Number Decoder

X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	X13	X14	X15	X16	X17	X18	X19	X20
W	M	U	F	D	5	1	2	G	-	H	E	C	T	M	B	3	E	L	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

008G : 8GB 128G : 128GB
 016G : 16GB 256G : 256GB
 032G : 32GB 512G : 512GB
 064G : 64GB

X11 Controller

H : HERMIT Series

X12 Controller version

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

X13 Controller grade

C : Commercial grade

X14 Flash IC brand

T : Toshiba NAND flash IC

X15 Flash IC type

M : MLC-NAND flash IC

X16 MLC Technology

B : Toshiba 15nm MLC

X17 X18 X19 Housing Generation

3EL : Generation 3 housing extra Long type

X20 Reserved for specific requirements

C : Conformal coating (optional)

SLC

aSLC

MLC

3D-NAND

DRAM Module

Adapter

Card-drive