



**Features**

- SLC-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 128MB up to 64GB

**Specification**

- **Compatibility** USB 3.1
- **Declarations** RoHS & REACH compliant
- **Flash technology** SLC-NAND flash technology
- **From-factor** Pen drive
- **Host interface** 9 pins USB 3.0 Type A connector
- **Performance**
  - **Data transfer rate** FullSpeed, HighSpeed and SuperSpeed
  - **Sequential read** 189.8 MB/sec (Max.)
  - **Sequential write** 114.9 MB/sec (Max.)
  - **4KB random read** 14.5 MB/sec (Max.)
  - **4KB random write** 10.4 MB/sec (Max.)
- **Environmental**
  - **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** 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 O.S.  
Linux, VxWorks and DOS

- **Power consumption**
  - **Power requirement** 5V ± 10% via USB port
  - **Reading mode** 195.2 mA(Max.)
  - **Writing mode** 177.2 mA(Max.)
  - **Idle mode** 39.5 mA(Max.)
- **Reliability**
  - **Wear-leveling** Dynamic, Static and Global wear-leveling algorithms
  - **TBW** Up to 452.8 TBW at 64GB Capacity (Client workload by JESD-219A)
  - **MTBF** > 3,000,000 hours
  - **Erase counts** Up to 60,000 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**
  - **SLC STD. grade** 3 years or within 60,000 erasing counts
  - **SLC IND. grade** 5 years or within 60,000 erasing counts

**Part Number List**

Capacity	0°C~+70°C	Capacity	-40°C~+85°C
128MB	SMUFD128M-HECTC-3EL	128MB	WMUFD128M-HEITI-3EL
256MB	SMUFD256M-HECTC-3EL	256MB	WMUFD256M-HEITI-3EL
512MB	SMUFD512M-HECTC-3EL	512MB	WMUFD512M-HEITI-3EL
1GB	SMUFD001G-HECTC-3EL	1GB	WMUFD001G-HEITI-3EL
2GB	SMUFD002G-HECTC-3EL	2GB	WMUFD002G-HEITI-3EL
4GB	SMUFD004G-HECTC-3EL	4GB	WMUFD004G-HEITI-3EL
8GB	SMUFD008G-HECTC-3EL	8GB	WMUFD008G-HEITI-3EL
16GB	SMUFD016G-HECTC-3EL	16GB	WMUFD016G-HEITI-3EL
32GB	SMUFD032G-HECTC-3EL	32GB	WMUFD032G-HEITI-3EL
64GB	SMUFD064G-HECTC-3EL	64GB	WMUFD064G-HEITI-3EL

**Part Number Decoder**

X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	X13	X14	X15	X16	X17	X18	X19	X20
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**Example**

W	M	U	F	D	0	6	4	G	-	H	E	I	T	I	-	3	E	L	C
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**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 requirements**

C : Conformal coating (optional)