



Features

- SLC-NAND flash technology
- Semi-metal casing design
- Optional color electronic plating (MOQ requested)
- Customized logo by laser engraving (MOQ requested)
- Capacities 16GB

Specification

■ Compatibility	USB 2.0 Hi-Speed and USB1.1
■ Declarations	RoHS & REACH compliant
■ Flash technology	SLC-NAND flash technology
■ Form-factor	Pen drive
■ Host interface	4 pins USB Type A connector
■ Performance	
➤ Data transfer rate	Hi-Speed up to 480 Mbps (60MB/s)
➤ Sequential read	31.2 MB/sec (Max.)
➤ Sequential write	24.5 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	97.5 mA (Max.)
➤ Writing mode	110 mA (Max.)
➤ Idle mode	58.7 mA (Max.)
■ Reliability	
➤ Wear-leveling	Static wear-leveling algorithms
➤ TBW	Up to 112.6 TBW at 16GB Capacity (Client workload by JESD-219A)
➤ MTBF	> 3,000,000 hours
➤ Erase counts	Up to 60,000 times
➤ ECC	72 bits per 1024 bytes block
■ Physical specification	
➤ Weight (Max.)	12g
➤ Dimension (WxLxH)	17.20 x 50.70 x 7.80 (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
16GB	SMUFD016G-MPDTG-5L	16GB	WMUFD016G-MPDTI-5L

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	1	6	G	-	M	P	D	T	I	-	5	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

016G : 16GB

X11 Controller

M : HERCULES Series

X12 X13 Controller version

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

X14 Flash IC brand

T : Toshiba SLC-NAND flash IC

X15 Flash IC grade

C : Commercial grade
I : Industrial grade

X17 X18 Housing Generation

5L : Generation 5 housing Long type

X19 X20 Reserved for specific requirements

C : Conformal coating (optional)

SLC

oSLC

MLC

3D-NAND

DRAM Module

Adapter

Card-drive