



### ❖ Specification

■ <b>Compatibility</b>	USB 2.0 Hi-Speed and USB1.1
■ <b>Declarations</b>	RoHS & REACH compliant
■ <b>Flash technology</b>	SLC-NAND flash technology
■ <b>Form-factor</b>	Pen drive
■ <b>Host interface</b>	4 pins USB Type A connector
■ <b>Performance</b>	
➢ <b>Data transfer rate</b>	Hi-Speed up to 480 Mbps (60MB/s)
➢ <b>Sequential read</b>	31.2 MB/sec (Max.)
➢ <b>Sequential write</b>	24.5 MB/sec (Max.)
■ <b>Environmental</b>	
➢ <b>Operating temp.</b>	STD. 0°C~+70°C/IND. -40°C~+85°C
➢ <b>Non-operating temp.</b>	STD. -20°C~+80°C/IND. -50°C~+95°C
➢ <b>Humidity</b>	10%~95% non-condensing
➢ <b>Vibration</b>	70 Hz to 2K Hz, 15G, 3 axes
➢ <b>Shock</b>	0.5ms, 1500G, 3 axes
➢ <b>Altitude</b>	70,000 feet
■ <b>OS supported</b>	Windows series O.S.Linux, VxWorks and DOS

### ❖ 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

### ❖ Features

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

#### ■ 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