

## Features

- MLC-NAND flash technology
- Semi-metal casing design
- Optional color electronic plating (MOQ requested)
- Customized logo by laser carving (MOQ requested)
- Capacities from 4GB up to 32GB



## Specification

■ <b>Compatibility</b>	USB 2.0 Hi-Speed and USB1.1
■ <b>Declarations</b>	RoHS & REACH compliant
■ <b>Flash technology</b>	MLC-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>	26 MB/sec (Max.)
➤ <b>Sequential write</b>	14.9 MB/sec (Max.)
■ <b>Environmental</b>	
➤ <b>Operating temp.</b>	STD. 0°C~+70°C/W.T. -40°C~+85°C
➤ <b>Non-operating temp.</b>	STD. -20°C~+80°C/W.T. -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

■ <b>Power consumption</b>	
➤ <b>Power requirement</b>	5V ± 10% via USB port
➤ <b>Reading mode</b>	101.5 mA (Max.)
➤ <b>Writing mode</b>	113.1 mA (Max.)
➤ <b>Idle mode</b>	67.1 mA (Max.)
■ <b>Reliability</b>	
➤ <b>Wear-leveling</b>	Static wear-leveling algorithms
➤ <b>TBW</b>	Up to 7.7 TBW at 32GB Capacity (Client workload by JESD-219A)
➤ <b>Erase counts</b>	Up to 3,000 times
➤ <b>ECC</b>	72 bits per 1024 bytes block
■ <b>Physical specification</b>	
➤ <b>Weight (Max.)</b>	10g
➤ <b>Dimension (WxLxH)</b>	17.20 x 47.20 x 7.80 (mm)
■ <b>Conformal coating</b>	Optional
■ <b>Warranty</b>	2 years or within 3,000 erasing counts

## Part Number List

Capacity	0°C~+70°C	Capacity	-40°C~+85°C
4GB	SMUFD004G-MPDTM-5	4GB	WMUFD004G-MPDTM-5C
8GB	SMUFD008G-MPDTM-5	8GB	WMUFD008G-MPDTM-5C
16GB	SMUFD016G-MPDTM-5	16GB	WMUFD016G-MPDTM-5C
32GB	SMUFD032G-MPDTM-5	32GB	WMUFD032G-MPDTM-5C

## 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	0	3	2	G	—	M	P	D	T	M	—	5	C		

### Example

W	M	U	F	D	0	3	2	G	—	M	P	D	T	M	—	5	C		
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### 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

004G : 4GB      016G : 16GB  
 008G : 8GB      032G : 32GB

### X11 Controller

M : HERCULES Series

### X12 X13 Controller version

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

### X14 Flash IC brand

T : Toshiba NAND flash IC

### X15 Flash IC type

M : MLC-NAND flash IC

### X17 Housing Generation

5 : Generation 5 housing

### X18 X19 X20 Reserved for specific requirements

C : Conformal coating (optional)