



**Features**

- MLC-NAND flash technology
- Support Trim command set
- Support Native Command Queuing (NCQ)
- Support S.M.A.R.T. command set and utility
- Support Power Loss Protection
- Capacities from 4GB up to 256GB

**Specification**

- **Compatibility** SATA Revision 3.1  
ATA-8 command set
- **Declarations** RoHS & REACH compliant
- **Flash technology** MLC-NAND flash technology
- **Form-factor** 1.8" Slim Lite SATA III SSD JEDEC  
MO-297A Specification compliance  
SATA 7-pin (data) + 15-pin (power)
- **Host Interface** SATA 7-pin (data) + 15-pin (power)
- **Performance**
  - **Data transfer rate** SATA 1.5Gb/s, 3.0Gb/s, 6.0Gb/s
  - **Sequential read** 420 MB/sec (Max.)
  - **Sequential write** 140 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, 20G, 3 axes
  - **Shock** 0.5ms, 1500 G, 3 axes
  - **Altitude** 70,000 feet

- **Power consumption**
  - **Power requirement** +5 V ± 5%
  - **Reading mode** 306mA (Max.)
  - **Writing mode** 280mA (Max.)
  - **Idle mode** 151mA (Max.)
- **Reliability**
  - **Wear-leveling** Static wear-leveling algorithms
  - **TBW** Up to 75 TBW at 256GB Capacity (Client workload by JESD-219A)
  - **Erase counts** Up to 3,000 times
  - **ECC** 40 bits per 1024 bytes block
- **Physical specification**
  - **Weight (Max.)** 15g
  - **Dimension (WxL)** 54.00 x 39.00 (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	
4GB	SB8SJ004G-JJCTMB-(T)		4GB	WB8SJ004G-JJCTMB-(T)C	
8GB	SB8SJ008G-JJCTMB-(T)		8GB	WB8SJ008G-JJCTMB-(T)C	
16GB	SB8SJ016G-JJCTMB-(T)		16GB	WB8SJ016G-JJCTMB-(T)C	
32GB	SB8SJ032G-JJCTMB-(T)		32GB	WB8SJ032G-JJCTMB-(T)C	
64GB	SB8SJ064G-JJCTMB-(T)		64GB	WB8SJ064G-JJCTMB-(T)C	
128GB	SB8SJ128G-JJCTMB-(T)		128GB	WB8SJ128G-JJCTMB-(T)C	
256GB	SB8SJ256G-JJCTMB-(T)		256GB	WB8SJ256G-JJCTMB-(T)C	

Notes : HERMES-J Series from 4GB to 32GB; HERMES-I Series from 64GB and 256GB

**Part Number Decoder**

X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	X13	X14	X15	X16	X17	X18	X19	X20
W	B	8	S	J	0	3	2	G	—	J	J	C	T	M	B	—	T	C	
W	B	8	S	J	2	5	6	G	—	J	I	C	T	M	B	—	T	C	

**Example 1**

W	B	8	S	J	0	3	2	G	—	J	J	C	T	M	B	—	T	C	
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**Example 2**

W	B	8	S	J	2	5	6	G	—	J	I	C	T	M	B	—	T	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**

B : Bare (without casing)

**X3 X4 X5 Product category**

8SJ : 1.8" Slim Lite SATA III SSD

**X6 X7 X8 X9 Capacity**

004G : 4GB      064G : 64GB  
008G : 8GB      128G : 128GB  
016G : 16GB     256G : 256GB  
032G : 32GB

**X11 Controller**

J : HERMES Series

**X12 Controller version**

A, B, C, D, ..., I, J, ...

**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

**X18 X19 X20 Reserved for specific requirements**

Blank : Standard product w/o thermal sensor and conformal-coating  
T : Thermal Sensor (optional)  
C : Conformal coating (optional)