



Features

- SLC-NAND flash technology
- Built with DRAM cache
- Support Trim command set
- Support Native Command Queuing (NCQ)
- Support S.M.A.R.T. command set and utility
- Capacities from 8GB up to 256GB

Specification

- **Compatibility** SATA Revision 3.1
ATA-8 command set
- **Declarations** RoHS & REACH compliant
- **Flash technology** SLC-NAND flash technology
- **Form-factor** 1.8" micro SATA SSD
(Shorter than PCMCIA PC Card)
- **Host Interface** Micro SATA II 7-pin (data)+ 9-pin (power)
- **Performance**
 - **Data transfer rate** SATA 1.5Gb/s, 3.0Gb/s, 6.0Gb/s
 - **Sequential read** 490 MB/sec (Max.)
 - **Sequential write** 430 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, 20G, 3 axes
 - **Shock** 0.5ms, 1500 G, 3 axes
 - **Altitude** 70,000 feet

- **Power consumption**
 - **Power requirement** +5V ± 5%
 - **Reading mode** 450mA (Max.)
 - **Writing mode** 600mA (Max.)
 - **Idle mode** 190mA (Max.)
- **Reliability**
 - **Wear-leveling** Static wear-leveling algorithms
 - **TBW** Up to 13,824 TBW at 256GB Capacity (Sequential Write)
- **MTBF** > 3,000,000 hours
- **Erase counts** Up to 60,000 times
- **ECC** 40 bits per 1024 bytes block
- **Physical specification**
 - **Weight (Max.)** 25g
 - **Dimension (WxLxH)** 54.00 x 78.50 x 5.00 (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
8GB	SP8SR008G-JHCTC	8GB	WP8SR008G-JHITI
16GB	SP8SR016G-JHCTC	16GB	WP8SR016G-JHITI
32GB	SP8SR032G-JHCTC	32GB	WP8SR032G-JHITI
64GB	SP8SR064G-JHCTC	64GB	WP8SR064G-JHITI
128GB	SP8SR128G-JHCTC	128GB	WP8SR128G-JHITI
256GB	SP8SR256G-JHCTC	256GB	WP8SR256G-JHITI

Part Number Decoder

X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	X13	X14	X15	X16	X17	X18	X19	X20
W	P	8	S	R	2	5	6	G	-	J	H	I	T	I	-	C			

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
 P : Plastic frame

X3 X4 X5 Product category
 8SR : 1.8" micro SATA III SSD with DRAM Cache

X6 X7 X8 X9 Capacity
 008G : 8GB 064G : 64GB
 016G : 16GB 128G : 128GB
 032G : 32GB 256G : 256GB

X11 Controller
 J : HERMES 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 X20 Reserved for specific requirements
 C : Conformal coating (optional)

SLC
 oSLC
 MLC
 3D-NAND
 DRAM Module
 Adapter
 Card-drive