



**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**
  - Rugged Metal 2.5" 9mm height SATA SSD
- **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**
    - 512.7 MB/sec (Max.)
  - **Sequential write**
    - 354.6 MB/sec (Max.)
  - **4KB random read**
    - 11.3K IOPS (Max.)
  - **4KB random write**
    - 5.5K IOPS (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, 1500G, 3 axes
  - **Altitude**
    - 70,000 feet

- **Power consumption**
  - **Power requirement**
    - +5 V ± 5%
  - **Reading mode**
    - 415mA (Max.)
  - **Writing mode**
    - 630mA (Max.)
  - **Idle mode**
    - 193mA (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**
    - 66 bits per 1024 bytes block
- **Physical specification**
  - **Weight (Max.)**
    - 75g
  - **Dimension (WxLxH)**
    - 70.00 x 100.00 x 8.80 (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
8GB	SR2SR008G-JHCTC	8GB	WR2SR008G-JHITI
16GB	SR2SR016G-JHCTC	16GB	WR2SR016G-JHITI
32GB	SR2SR032G-JHCTC	32GB	WR2SR032G-JHITI
64GB	SR2SR064G-JHCTC	64GB	WR2SR064G-JHITI
128GB	SR2SR128G-JHCTC	128GB	WR2SR128G-JHITI
256GB	SR2SR256G-JHCTC	256GB	WR2SR256G-JHITI

**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	R	2	S	R	2	5	6	G	-	J	H	I	T	I	-	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**

R : Rugged metal casing

**X3 X4 X5 Product category**

2SR : 2.5" 9 mm height 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