



Features

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

Specification

- **Compatibility**
 - SATA Revision 3.1
 - ATA-8 ACS2 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**
 - 561.9 MB/sec (Max.)
 - **Sequential write**
 - 423.9 MB/sec (Max.)
 - **4KB random read**
 - 74.1K IOPS (Max.)
 - **4KB random write**
 - 73.5K 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, 15G, 3 axes
 - **Shock**
 - 0.5ms, 1500G, 3 axes
 - **Altitude**
 - 70,000 feet

- **Power consumption**
 - **Power requirement**
 - +5 V ± 5%
 - **Reading mode**
 - 410mA (Max.)
 - **Writing mode**
 - 540mA (Max.)
 - **Idle mode**
 - 120mA (Max.)
- **Reliability**
 - **Wear-leveling**
 - Global wear-leveling algorithms
 - **TBW**
 - Up to 1,807.4 TBW at 256GB Capacity (Client workload by JESD-219A)
 - **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-MTCTC	8GB	WR2SR008G-MTITI
16GB	SR2SR016G-MTCTC	16GB	WR2SR016G-MTITI
32GB	SR2SR032G-MTCTC	32GB	WR2SR032G-MTITI
64GB	SR2SR064G-MTCTC	64GB	WR2SR064G-MTITI
128GB	SR2SR128G-MTCTC	128GB	WR2SR128G-MTITI
256GB	SR2SR256G-MTCTC	256GB	WR2SR256G-MTITI

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	-	M	T	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

M : HERCULES 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