

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

◆ Features



- SLC-NAND flash technology
- Power interrupt data protection via tantalum capacitors
- Support Trim command set
- Support Native Command Queuing (NCQ)
- S.M.A.R.T. command set
- Capacities from 8GB up to 256GB

◆ Specification

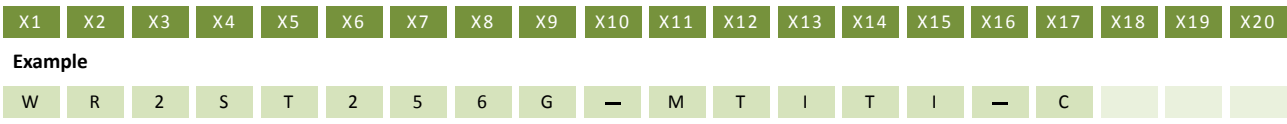
- **Compatibility**  
SATA Revision 3.1  
ATA-8 ACS2 command set
- **Declarations**  
RoHS & REACH compliant
- **Flash technology**  
SLC-NAND flash technology
- **Form-factor**  
Rugged Metal 2.5" 9mm height SATA SSD
- **Host Interface**  
SATA 7-pin (data) + 15-pin (power)
- **Performance**
  - **Data transfer rate**  
SATA 1.5Gb/s, 3.0Gb/s, 6.0Gb/s
  - **Sequential read**  
172.8 MB/sec (Max.)
  - **Sequential write**  
166.3 MB/sec (Max.)
  - **4KB random read**  
36K IOPS (Max.)
  - **4KB random write**  
40.2K 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**  
360mA (Max.)
  - **Writing mode**  
430mA (Max.)
  - **Idle mode**  
130mA (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	SR2ST008G-MTCTC	8GB	WR2ST008G-MTITI
16GB	SR2ST016G-MTCTC	16GB	WR2ST016G-MTITI
32GB	SR2ST032G-MTCTC	32GB	WR2ST032G-MTITI
64GB	SR2ST064G-MTCTC	64GB	WR2ST064G-MTITI
128GB	SR2ST128G-MTCTC	128GB	WR2ST128G-MTITI
256GB	SR2ST256G-MTCTC	256GB	WR2ST256G-MTITI

◆ Part Number Decoder



- 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**  
2ST : 2.5" 9mm height SATA III SSD with Tantalum Capacitors
- 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)