



Features

- MLC-NAND flash technology
- Support True IDE mode
- Master/Slave selectable
- Support S.M.A.R.T. command set
- Support C.H.S. / LBA customization
- Support Power Loss Protection
- Capacities from 16GB up to 512GB

Specification

- **Compatibility** ATA/ATAPI-8 and True IDE mode
- **Declarations** RoHS & REACH compliant
- **Flash technology** MLC-NAND flash technology
- **Form-factor** Rugged Metal 2.5" PATA (IDE) SSD
- **Host Interface** Standard 44-pin PATA (IDE) male connector
- **Master/Slave** By jumper
- **Performance**
 - **Data transfer rate** PIO 0~4, MWDMA 0~2, UDMA 0~6
 - **Sequential read** 103.1 MB/sec (Max.)
 - **Sequential write** 100.2 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, 15G, 3 axes
 - **Shock** 0.5ms, 1500 G, 3 axes
 - **Altitude** 70,000 feet

- **Power consumption**
 - **Power requirement** +5V ± 5%
 - **Reading mode** 225.7 mA (Max.)
 - **Writing mode** 295.9 mA(Max.)
 - **Idle mode** 4.8 mA (Max.)
- **Reliability**
 - **Wear-leveling** Global wear-leveling algorithms
 - **TBW** Up to 150 TBW at 512GB Capacity (Client workload by JESD-219A)
 - **Erase counts** Up to 3,000 times
 - **ECC** 72 bits per 1024 bytes block
- **Physical specification**
 - **Weight (Max.)** 75g
 - **Dimension (WxLxH)** 70.10 x 100.00 x 8.80 (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	
16GB	SR2IF016G-MQCTMB-U		16GB	WR2IF016G-MQCTMB-UC	
32GB	SR2IF032G-MQCTMB-U		32GB	WR2IF032G-MQCTMB-UC	
64GB	SR2IF064G-MQCTMB-U		64GB	WR2IF064G-MQCTMB-UC	
128GB	SR2IF128G-MQCTMB-U		128GB	WR2IF128G-MQCTMB-UC	
256GB	SR2IF256G-MQCTMB-U		256GB	WR2IF256G-MQCTMB-UC	
512GB	SR2IF512G-MQCTMB-U		512GB	WR2IF512G-MQCTMB-UC	

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	I	F	5	1	2	G	-	M	Q	C	T	M	B	-	U	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

R : Rugged metal casing

X3 X4 X5 Product category

2IF : 2.5" 9.0 mm height PATA (IDE) SSD

X6 X7 X8 X9 Capacity

016G : 16GB 128G : 128GB
 032G : 32GB 256G : 256GB
 064G : 64GB 512G : 512GB

X11 Controller

M : HERCULES Series

X12 Controller version

A, B, C, D.....

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 Data transfer rate / Disk type

U : Defaulted as UDMA-6 mode / Fixed disk type

X19 X20 Reserved for specific requirements

C : Conformal coating (optional)

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