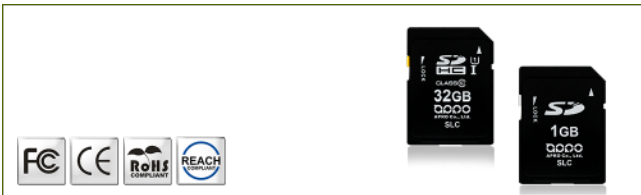


SLC
aSLC
MLC
3D-NAND
DRAM Module
Adapter
Card-drive

◆ Features



- SLC-NAND flash technology
- Support SD mode and SPI mode
- Support CPRM
- Support UHS-1
- Write Protect switch
- Capacities from 128MB up to 32GB

◆ Specification

- **Compatibility** SDA3.0
- **SDC** 128MB to 2GB: FAT file system
- **SDHC** 4GB to 32GB: FAT16 file system
- **Declaration** RoHS & REACH compliant
- **Flash technology** SLC-NAND flash technology
- **Form-factor** Standard SD card form-factor
- **Host interface** 9-pin connector
- **Write Protection** Mechanical switch
- **Performance**
- **Data transfer rate** Class-10
- **Sequential read** SDC: 21.9 MB/sec (Max.)
SDHC: 65 MB/sec (Max.)
- **Sequential write** SDC: 20 MB/sec (Max.)
SDHC: 55 MB/sec (Max.)
- **Environmental**
- **Operating temp.** IND. -40°C~+85°C
- **Non-operating temp.** IND. -50°C~+95°C
- **Humidity** 10% ~ 95% non-condensing

- **Vibration** 80 Hz to 2K Hz, 20G, 3 axes
- **Shock** 0.5ms, 1,500 G, 3 axes
- **Altitude** 70,000 feet
- **Power consumption**
- **Power requirement** +3.3V ± 10%
- **Reading mode** 400 mA (Max.)
- **Writing mode** 400 mA (Max.)
- **Idle (Standby) mode** 1000 uA (Max.)
- **Reliability**
- **Wear-leveling** Static & Dynamic wear-leveling algorithms
- **MTBF** > 3,000,000 hours
- **Erase counts** Up to 60,000 times
- **ECC** BCH ECC
- **Physical specification**
- **Weight (Max.)** 2.5g
- **Dimension (WxLxH)** 24.0 x 32.0 x 2.1 (mm)
- **Warranty**
- **SLC IND. grade** 5 years or within 60,000 erasing counts

◆ Part Number List

SD memory card				SDHC memory card			
Capacity	-40°C~+85°C			Capacity	-40°C~+85°C		
128MB	WPSDC128M-PFITI			4GB	WPSDH004G-PFITI		
256MB	WPSDC256M-PFITI			8GB	WPSDH008G-PFITI		
512MB	WPSDC512M-PFITI			16GB	WPSDH016G-PFITI		
1GB	WPSDC001G-PFITI			32GB	WPSDH032G-PFITI		
2GB	WPSDC002G-PFITI						

◆ 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 1

W	P	S	D	C	0	0	2	G	—	P	F	I	T	I	—				
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Example 2

W	P	S	D	H	0	3	2	G	—	P	F	I	T	I	—				
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- X1** Grade
W : Industrial grade operating temp. -40°C~+85°C
- X2** The material of casing
P : Plastic casing
- X3** **X4** **X5** Product category
SDC : SD memory card
SDH : SDHC memory card
- X6** **X7** **X8** **X9** Capacity
128M : 128MB 004G : 4GB
256M : 256MB 008G : 8GB
512M : 512MB 016G : 16GB
001G : 1GB 032G : 32GB
002G : 2GB

- X11** Controller
P : PHANES Series
- X12** Controller version
A, B, C, D....
- X13** Controller grade
I : Industrial grade
- X14** Flash IC brand
T : Toshiba SLC-NAND flash IC
- X15** Flash IC grade
I : Industrial grade
- X17** **X18** **X19** **X20** Reserved for specific requirements