

DATA SHEET

miniSD Card



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1. Introduce the miniSD Card

The miniSD Card is a Memory Card that reduce size from normal SD Card with SDMI. miniSD Card is a Flash Based memory card that is designed to meet the security, capacity, performance and environment requirements inherent to used in emerging audio and video electronic device.

The miniSD Card includes a copyright protection mechanism that complies with the security of the SDMI standard. The miniSD Card communication is based on an advance 9-pin interface and the miniSD Card host interface supports regular MultiMediaCard operation as well.

Notes: SDMI means Secure Digital Music Initiative.

2. miniSD Card Feature

- 512 Mbytes flash memory card.
- SD Card protocol compatible.
- Targeted for portable and stationary applications for secured (copyrights protected) and non-secured data storage.
- Correction of memory field errors.
- Copyrights Protection Mechanism: Complies with highest security of SDMI standard.
- Card Detection (Insertion / Removal).
- High Performance:
 - Read: 8.3 Mbytes/s.
 - Write: 6.8 Mbytes/s.

Notes: The performance depends on different test platform with different result.

- The communication channel is described in the table below.

SD Bus/SPI Bus comparison

miniSD Card Using SD Bus	miniSD Card Using SPI Bus
Six-wire communication channel (clock, command, 4 data lines)	Three-wire serial data bus (Clock, dataIn, dataOut) + card specific CS signal(hardwired card selection)
Error-protected data transfer	Optional non protected data transfer mode available
Single or multiple block oriented data transfer	Single or multiple block oriented data transfer