Description

This chapter describes the mechanical and electrical feature of the Micro SD memory card. The micro SD is function compatible with the SD memory card but is smaller in dimension, it is also a solid-state device that without moving parts to skip or break down. Based on original NAND flash chip, the Micro SD can offer and incredible combination of fast data transfer, great flexibility, excellent security and incredibly small size.

Placement

Front   **Back**

Feature

- USB Interface: Compliant with USB2.0 and USB 1.1 , Support hot plug.
- System: Windows 98/ 98SE/ ME/ XP/ 2000/ Vista/ 7, Mac OS 8.6 and Linux 2.4.0 or above
- System Performance: Read: 14MB/sec (max.), Write: 3MB/sec (max.)
- Power Supply: DC 5V±10% via the USB port
- Capacity: 128MB/ 256MB/ 512MB/ 1GB/ 2GB/ 4GB/ 8GB/ 16GB/ 32GB/ 64GB/ 128GB
- Operating Temp.: 0°C to +70°C (32°F to 158°F)
- Storage Temp.: -25°C to +70°C (-13°F to +158°F)
- **Dimentions:** (L)24.8 x (W)11.2 x (H)1.4 mm

PIN Definitio

Pin No.	SD Mode			SPI Mode		
	Name	Type	Description	Name	Type	Description
1	DAT2	I/O/PP	Data Line [Bit2]	RSV		Reserved
2	CD/DAT3	I/O/PP	Card Detect ./ Data Line [Bit3]	CS	I	Chip Select
3	CMD	PP	Command / Response	DI	I	Data In
4	V_{DD}	S	Supply voltage	V_{DD}	S	Supply voltage
5	CLK	I	Clock	SCLK	I	Clock
6	V_{SS}	S	Supply voltage ground	V_{SS}	S	Supply voltage ground
7	DAT0	I/O/PP	Data Line [Bit0]	DO	O/PP	Data out
8	DAT1	I/O/PP	Data Line [Bit1]	RSV		Reserved

S: Power Supply; I:Input; O:Output; PP:Push-Pull

Size	15x11x1 mm
Area	165 mm^2 (10)
Card Volume	165 mm^3 (10)
Thickness	1.0mm
Weight	Approx 0.5g
Number of pins	8 pins
Operating Voltage	2.7V-3.6V
Write-protect Switch	NO
Copyright protection	CPRM *
Compatibility	Yes (with adapter)
Capacity	Up to 128GB

*if needed