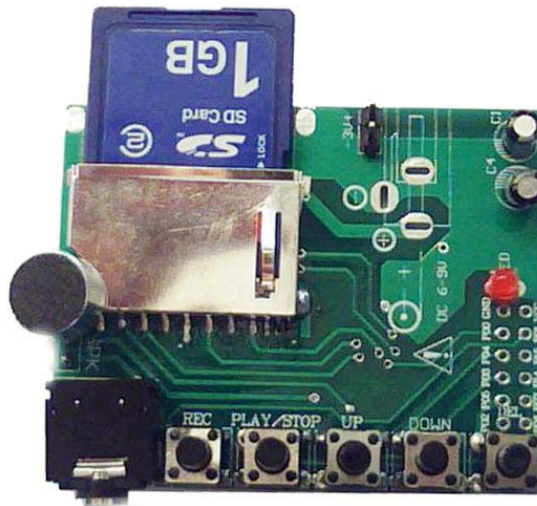


## WTR-SD Recording Module

Data Sheet V1.0

December 12, 2009



### 1. Features

- \* Direct record message to SD card and playback function
- \* SD card recording module, 128MB to 1GB
- \* Recorded message transfer to PC with SD card reader easily.
- \* Power supply DC5 -12V from DC socket or DC 3V from “-3 V+” Pins
- \* Record wav format, 16KHz, 4bit, mono .
- \* Duration depends on the SD card capability (2 minutes /1 MB )
- \* Headphone Jack for DAC output for connecting to amplifier or headphone
- \* LINE-IN & MIC recording.
- \* Speaker output from two pin socket(0.5W, 8ohm)
- \* With REC, PLAY/STOP, UP, DOWN, DEL. buttons
- \* Size: 56mm\*46mm\*10mm

## 2. Wiring Instructions

**MIC:** For microphone recording

**Headphone Jack:** DAC output to headphone or amplifier

**SPK(2 Pins Terminal ):** Speaker output, access 0.5W, 8ohm speakers directly.

### Power supply Option 1

-3V+(2Pins terminal ): “+” is positive 3V (2.5-3.3V applicable), “-“is negative (ground), make sure that supply a stable power.

### Power supply Option 2

DC socket: Suitable for DC 5-12 V power input

**LED:** Show the recording and playing , erasing state

**LINE-IN recording:** Connect a capacitor 104 from the15R connect to the point near R15 silkscreen) , audio signals goes to pin11 of the chip through capacitor 104. That can achieve the purpose of LINE-IN input. Audio signal GND connect to Module GND .

## The Functions of 5 Pushbuttons

**REC:** record button.

Version one : Negative Pulse record ,Keep ~~press~~ press 2-3 seconds, after “B”sound, start recording ,press to stop . If you finish the ~~recording~~ recording, please press the button. Repeat this operation, can record other different voice. (512 Recording message maximum)

Version two : Low Level record ,Keep ~~press~~ the record button , after “B”sound, start recording ,Release the button to stop . . Repeat ~~th~~ operation, can record other different voice messages. (512 Recording message maximum)

**PLAY / STOP:** Press the button to play, press again to ~~stop~~ Stop. Note: Play the current segment recording message

**UP:** Play the previous recording message

**DOWN:** Play the next recording message

**DEL:** Keeping press button 2-3 seconds, delete the current recording, at that time LED light, and then you will hear “BB” sound , deleted .

### 3. Note

If you listen “BBB” sound when you power the module, that mean the SD not inserted or can not identify the SD card . ( SD card should Format to FAT before inserted )

For selecting the SD card, should test them before purchasing , Because there are many Brands and quality class of SD card ,the module cant ridentify all of them . Support from 128Mb to 1Gb , 1Gb is suggested .