MP3 Module Instruction Manual



Brief description:

Connect the MP3 module to the servo control board, use the computer software to edit the commands, then the robot can play MP3 music while moving or introduce itself while moving.

Then when the robot moves, it can play MP3 music while moving, or introduce itself while moving.

Or connect the MP3 module to the microcontroller, the microcontroller sends commands to the MP3 module through the serial port to play the specified MP3 files.

The robot can then play MP3 music while it moves or introduce itself while it moves.

MP3 module features:

1 , TTL serial communication interface, receive commands through the serial port, so as to play the specified MP3 files. (9600 baud rate)

2, support FAT16, FAT32 file system

3, support MP3, WAV, WMA file format

4, the maximum support 32G TF card

Application scope:

1, robot voice, self-introduction, play music

2, Car voice system

3, Station broadcasting

Interface Description

+ Power positive, supply range 5-12V

- Negative power supply

RXD Serial Receive

TXD Serial transmit (not connected)

Wiring instructions (connected to the servo control board)



Above is the 24-channel plus servo control board (serial signals, VCC, GND from the left in the picture above) (only one signal interface is needed to control the MP3 module, that is, the serial port sends <sending commands to the MP3 module>).）

Connect + on the MP3 module to the positive power supply of the servo connector S1 on the servo control board (MP3 shares power with servo).

Connect the - on the MP3 module to the negative power supply of servo connector S1 on the servo control board.

Connect TXD on the MP3 module to RXD next to S1 on the servo control board.

Connect the RXD on the MP3 module to the TXD next to S1 on the servo control board.

Connect the microcontroller

Connect + on MP3 module to power supply positive (range 5-12V)

Connect - on the MP3 module to the negative side of the power supply.

Connect TXD on MP3 module to RXD on microcontroller.

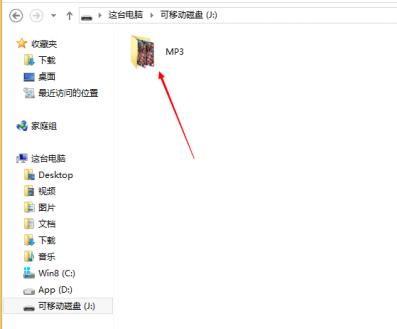
Connect RXD on MP3 module to TXD on microcontroller.

The baud rate for serial communication must be 9600.

TF Card Description

The TF card supports up to 32G, and the recommended file format is FAT32.

Create a new folder named MP3 in the TF root directory.



Then place the MP3 file you want to play in the MP3 folder.



The name of the file must be: four digits + song name

For example: 0001 Hello

e.g. 0002 Little Apple

Servo control board computer software instructions



Description of communication protocols (partial)

hexadecimal number command： 7E FF 06 12 00 00 01 EF

Note: The data in red are variables that， 00 01 denotes document 0001

hexadecimal number command： 7E FF 06 12 00 00 02 EF

Note: Data in red are variables， 00 02 indicates 0002 Track

hexadecimal number command： 7E FF 06 12 00 00 FF EF

Note: Data in red are variables， 00 FF for 0255 Track

hexadecimal number command： 7E FF 06 12 00 07 CF EF

Note: Data in red are variables， 07 CF for 1999 Track

(Hexadecimal number 07CF = 1999)

hexadecimal number command： 7E FF 06 0E 00 00 00 EF

Note: This command is to pause the playback