

Mobile Robot Remote Controller

From Wiki



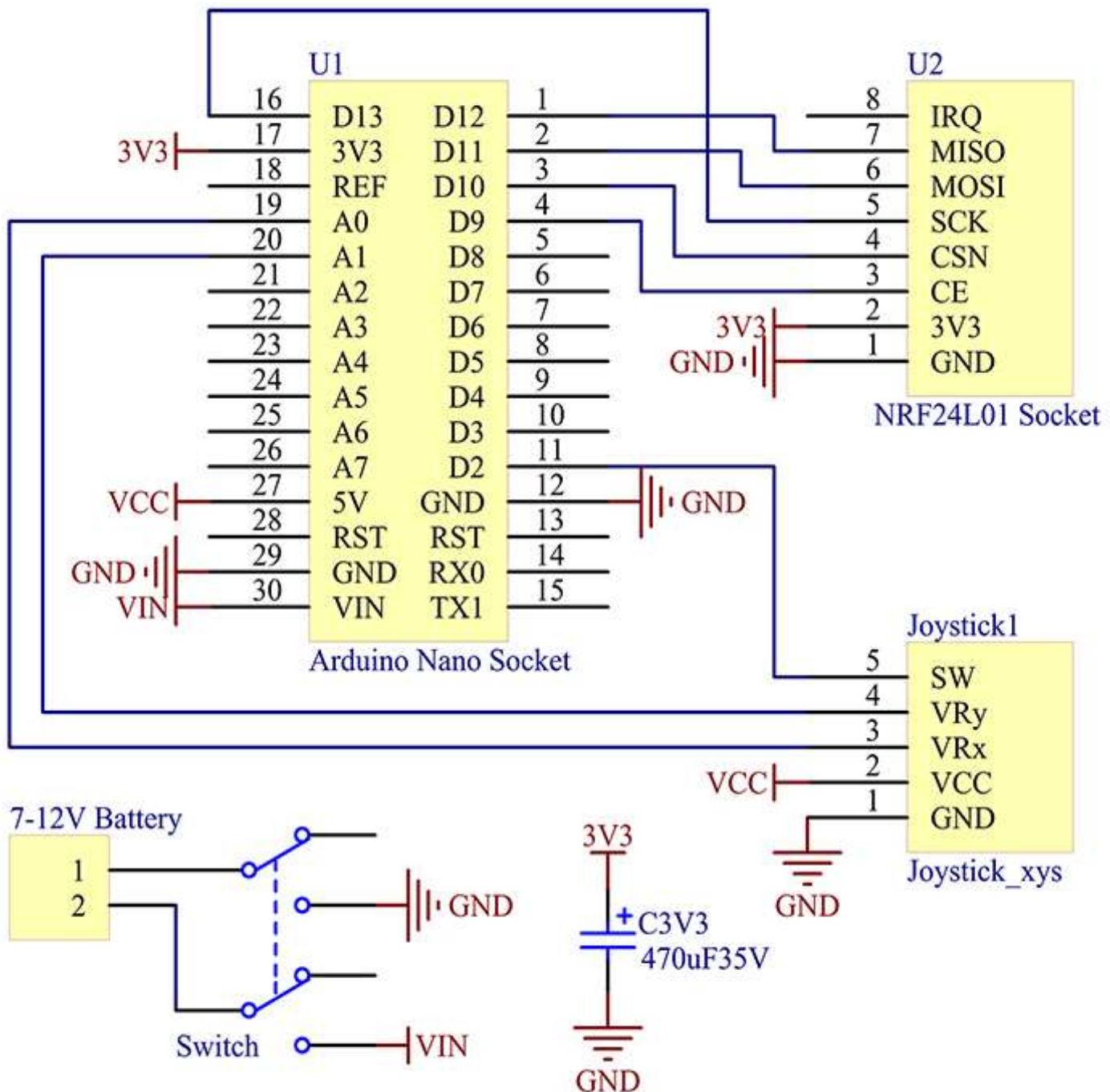
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Introduction

The expansion board integrates the pin sockets for Arduino Nano and NRF24L01, as well as a 2.5D joystick. With this board, you can make a controller by yourself conveniently which can control a robot, smart car, or other smart devices. The joystick can output analog quantities of two directions and digital quantities of one direction.

Schematic



Features

1. Integrates the pin sockets for Arduino Nano and NRF24L01
2. With a 2.5 joystick for controlling Working voltage: 7-12V; with a power switch on the board
3. Easy to use with control module/board connected
4. Remote control provides more convenience in your projects

Application

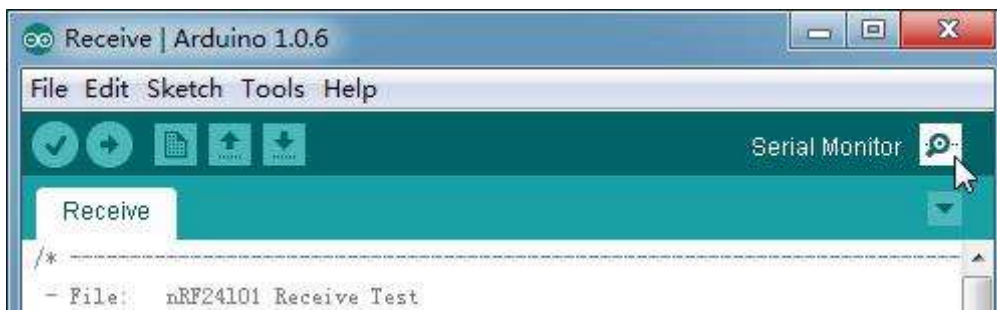
Robots, smart cars, and other smart devices

Note The supply voltage must be within the limit required.

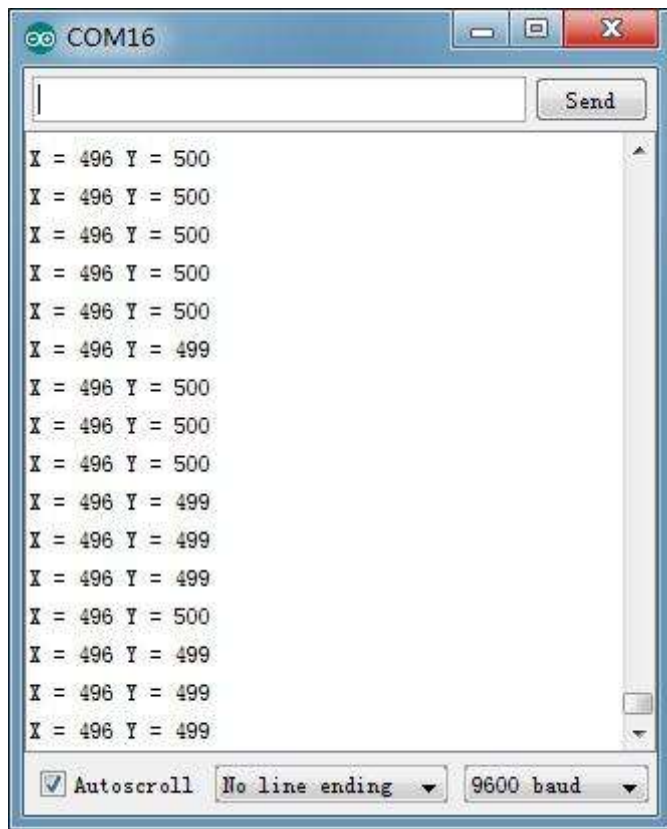
Test Experiment




- 1) Plug in the Nano and Nrf24l01 module
- 2) Connect the **Mobile Robot Remote Controller** to PC with a Mini-USB cable. If everything looks good, switch it on. Then the blue LED on the Nano board will light up.
- 3) Before you upload the code, you need to add the **RF24.zip** under the Test Code/Library to the Arduino libraries folder. Upload the **Transmit.ino** to the Mobile Robot Remote Controller. Then Remove the USB cable after upload, and keep the power on.
- 4) Connect a **Receiver** to your PC with a USB cable.
- 5) Upload the **Receive.ino** to the receiver. **Do not remove the USB cable after upload.** Open **Serial Monitor**.



Now, you should see information received by the nRF24l01 module displayed in the Serial Monitor window. Turn the rocker arm. The value displayed in the **Serial Monitor** window will change, which indicates wireless communication is working.



Test_Code.zip (https://www.sunfounder.com/wiki/index.php?title=File:Test_Code.zip) 

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