

FT232RL 3.3V 5.5V FTDI USB To TTL Serial Converter Adapter

Introduction:



The FT232RL USB to TTL 3.3V/5V FTDI Serial Adapter Module is a popular module that is used to connect a TTL serial communicating device to a PC via a USB mini port. This converter module has options for different output voltage options which are set by the jumper on the board. FT232RL USB to TTL Serial Adapter Module can be used to upgrade any legacy peripherals to USB.



SYNACORP TECHNOLOGIES SDN. BHD. (1310487-K)
No.25 Lorong 1/SS3, Bandar Tasek Mutiara,
14120 Simpang Ampat, Penang, Malaysia.
T: +604.586.0026 F: +604.586.0026
www.synacorp.my | Email: sales@synacorp.com.my

Specifications:

- Chip set FT232RL
- Support 3.3V, 5V
- Pin definition: DTR,RXD,TXD,VCC,CTS,GND
- Pitch:2.54mm ; Size:36mm(length)*17.5mm(width)
- USB power has over current protection, using 500MA self-restore fuse

Applications:

- Connect a TTL serial communicating device to a PC via a USB mini port

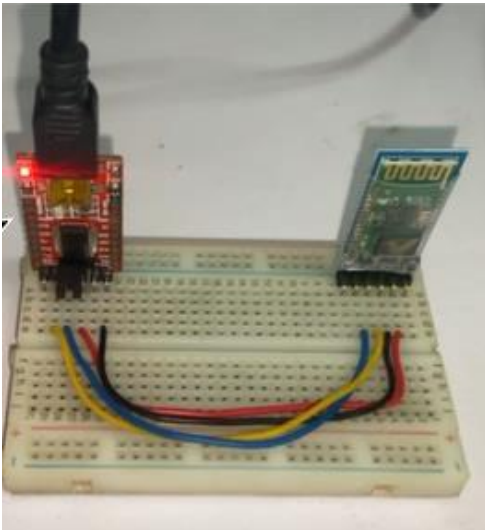
Objectives:

This tutorial will show you a few simple steps about how to use FT232RL 3.3V 5.5V FTDI USB To TTL Serial Converter Adapter. At the end of this tutorial, you will get a result by serial monitor.

Components needed:

- FT232RL USB to TTL
- AHC05 Bluetooth Module
- USB cable

Procedures:



1. Simply connect FT232RL to AHC05 Bluetooth Module



SYNACORP TECHNOLOGIES SDN. BHD. (1310487-K)
No.25 Lorong 1/SS3, Bandar Tasek Mutiara,
14120 Simpang Ampat, Penang, Malaysia.
T: +604.586.0026 F: +604.586.0026
www.synacorp.my | Email: sales@synacorp.com.my

A screenshot of the Arduino IDE code editor. The window title is 'sketch_mar13a | Arduino 1.8.19'. The menu bar includes 'File', 'Edit', 'Sketch', 'Tools', and 'Help'. The code editor shows the following text:

```
sketch_mar13a
1 void setup() {
2   // put your setup code here, to run once:
3
4 }
5
6 void loop() {
7   // put your main code here, to run repeatedly:
8
9 }
```

2. Open Arduino

A screenshot of the Arduino Serial Monitor window. The port is set to 'COM3'. The output shows the following text:

```
+NAME: SYNACORP
OK
OK
+VERSION: 5.0-20220104
OK
```

At the bottom, there are checkboxes for 'Autoscroll' (checked) and 'Show timestamp' (unchecked). The baud rate is set to '38400 baud'.

3. Run command in serial monitor



SYNACORP TECHNOLOGIES SDN. BHD. (1310487-K)
No.25 Lorong 1/SS3, Bandar Tasek Mutiara,
14120 Simpang Ampat, Penang, Malaysia.
T: +604.586.0026 F: +604.586.0026
www.synacorp.my | Email: sales@synacorp.com.my

Conclusion:

- The FT232RL is a USB-to-serial converter chip that provides a convenient way to interface USB with TTL-level serial devices.
- The 3.3V and 5.5V options make it compatible with a wide range of devices
- FT232RL is a reliable and versatile solution for USB-to-serial communication and can be a valuable tool for hobbyists, developers, and engineers alike.