**1 NEO-6M GPS Module**

Our group will use NEO-6M to receive the location information. It will connect to STM32F103C8 to transmit the data. Then it will transmit the data to survey through ESP8266 Wi-Fi module.

**1.1 Diagram of NEO-6M:**

手机屏幕的截图

中度可信度描述已自动生成

Figure 1.1 Diagram of NEO-6M and the pins

**1.2 Description of NEO-6M**

|  |  |  |
| --- | --- | --- |
| Pin Number | Pin Name | Verification |
| 1 | GND | Ground (0 V) |
| 2 | TX | Transmit data bit X |
| 3 | RX | Receive data bit X |
| 4 | VCC | Voltage (+3.3 V) |

**1.3 Connection between two chips**

|  |  |
| --- | --- |
| NEO-6M | **STM32** |
| GND | G |
| TX | PA9 |
| RX | PA2 |
| VCC | 3.3V |

Table 1.4 Pins Connection between NEO-6M and STM32F103C8

**1.5 Tolerant**

Input voltage: 3.3 – 5.5V

Power Dissipation: 50mA (normal mode) 30mA (power saving mode)

Work Temperature: -40°C Cto+85°C

Storage Temperature: -55°C Cto+100°C

https://lastminuteengineers.com/neo6m-gps-arduino-tutorial/