|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Connection** | **Function** | **Jetson Nano**  **40-Pin Header** | | **Function** | **Connection** |
| **Temperature/ Humidity Sensor Vin (Red Wire)** | **3.3V** | **1** | **2** | **5V** | **X** |
| **Temperature/ Humidity Sensor SDI (Blue Wire)** | **I2C\_2\_SDA** | **3** | **4** | **5V** | **X** |
| **Temperature/ Humidity Sensor SCK (Green Wire)** | **I2C\_2\_SCL** | **5** | **6** | **GND** | **GPS Sensor GND (Brown Wire)** |
| **X** | **---** | **7** | **8** | **UART\_TX** | **GPS Sensor Rx (Orange Wire)** |
| **Temperature/ Humidity Sensor GND (Black Wire)** | **GND** | **9** | **10** | **UART\_RX** | **GPS Sensor Tx (Yellow Wire)** |
| **X** | **---** | **11** | **12** | **---** | **X** |
| **X** | **---** | **13** | **14** | **GND** | **X** |
| **X** | **---** | **15** | **16** | **---** | **X** |
| **GPS Sensor 5V (Red Wire)** | **3.3V** | **17** | **18** | **---** | **X** |
| **X** | **---** | **19** | **20** | **GND** | **X** |
| **X** | **---** | **21** | **22** | **---** | **X** |
| **X** | **---** | **23** | **24** | **---** | **X** |
| **X** | **GND** | **25** | **26** | **---** | **X** |
| **Compass Sensor SDA (White Wire)** | **I2C\_1\_SDA** | **27** | **28** | **I2C\_1\_SCL** | **Compass Sensor SCL (Green Wire)** |
| **X** | **---** | **29** | **30** | **GND** | **Thermal Camera PWM GND (Black Wire)** |
| **X** | **---** | **31** | **32** | **PWM0** | **Thermal Camera Color PWM (Orange Wire)** |
| **Thermal Camera Start/Stop PWM (Blue Wire)** | **PWM1** | **33** | **34** | **GND** | **Thermal Camera PWM GND (Black Wire)** |
| **X** | **---** | **35** | **36** | **---** | **X** |
| **X** | **---** | **37** | **38** | **---** | **X** |
| **X** | **GND** | **39** | **40** | **---** | **X** |