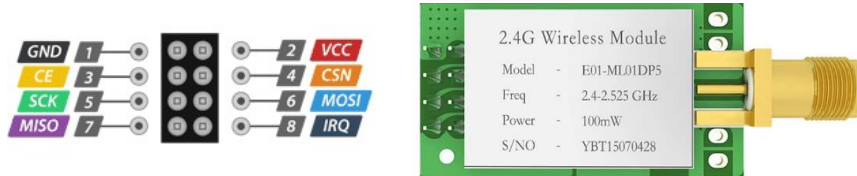


nRF24L01



1. GND – Ground
2. VCC – Power Supply 3.3V (1.9V to 3.6V)
3. CE – Chip Enable
4. CSN – Chip Select Not
5. SCK – Serial Clock for SPI Bus
6. MOSI – Master Out Slave In
7. MISO – Master in Slave Out
8. IRQ – Interrupt Pin (active low)

Power supply voltage: 1.9V~3.6VDC

Working frequency band: 2404~2478MHz

Measured distance: about 2500m (clear, open, and interference-free test environment)

Air rate: 250K~2Mbps

Shutdown current: 1.0uA (nRF24L01P is set to power down, CE low level)

Emission current: 130mA@20dBm

Receiving current: 20mA (CE=1)

Communication interface: SPI (up to 10Mbps)

Transmission length: 32 bytes maximum for a single data packet, 3-level FIFO

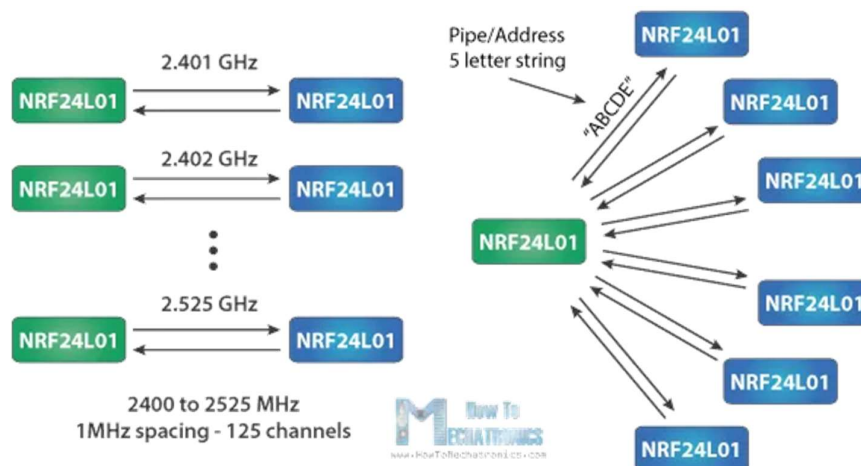
Receiving length: 32 bytes maximum for a single data packet, 3-level FIFO

Antenna type: external flexible antenna, gain up to 3.1dBi

Receiving sensitivity: -110dBm@250kbps

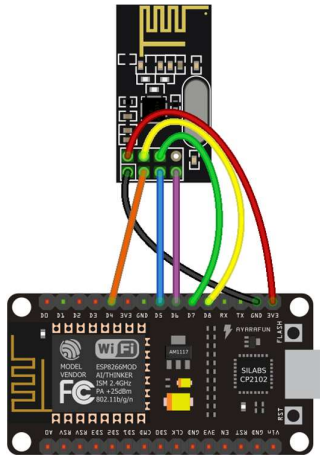
Transmitting power: 100mW (20dBm)

การสื่อสาร

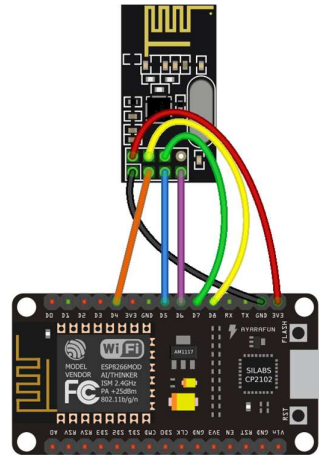


การทดลอง nRF24L01 Ebyte

1.Hello world

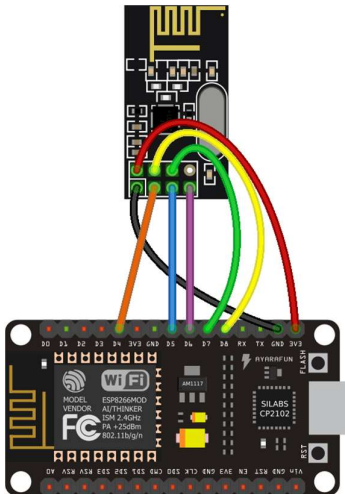


nrf24_receiver_hello.inp

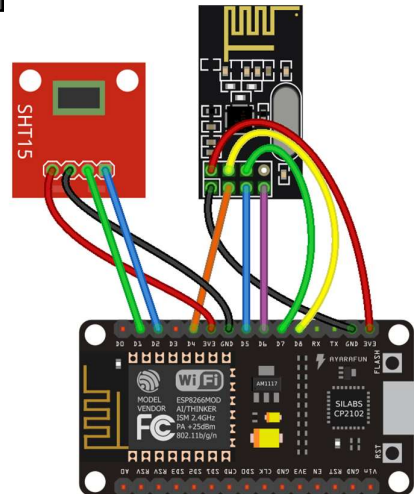


nrf24_transmitter_hello.ino

2.การส่งข้อมูลแบบโครงสร้าง

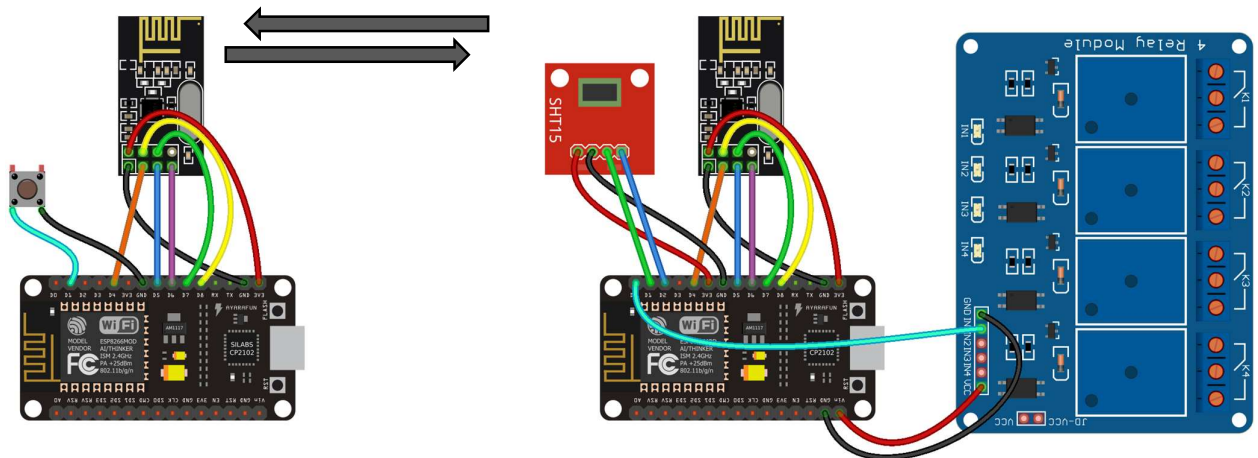


Receiver code : nrf24_receiver_data_struct.ino



Transmitter code nrf24_transmitter_data_struct

3.การสื่อสารแบบ two way



Gateway code : nrf24_2way_gateway.ino

Node device code : nrf24_2way_node.ino

4. Multiple Node

