

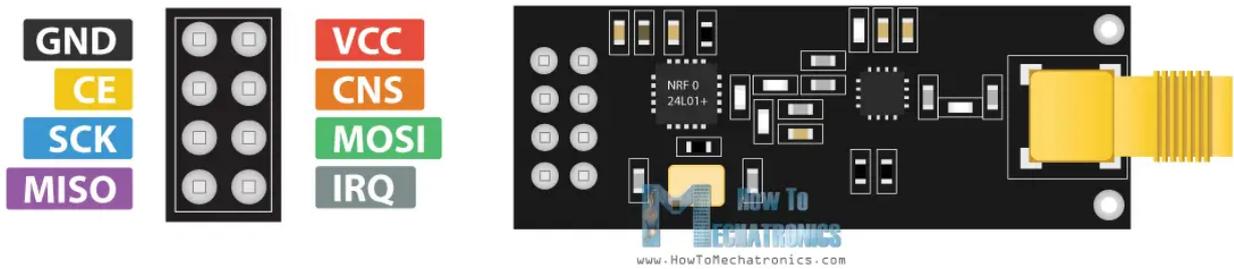
# BlueJammer

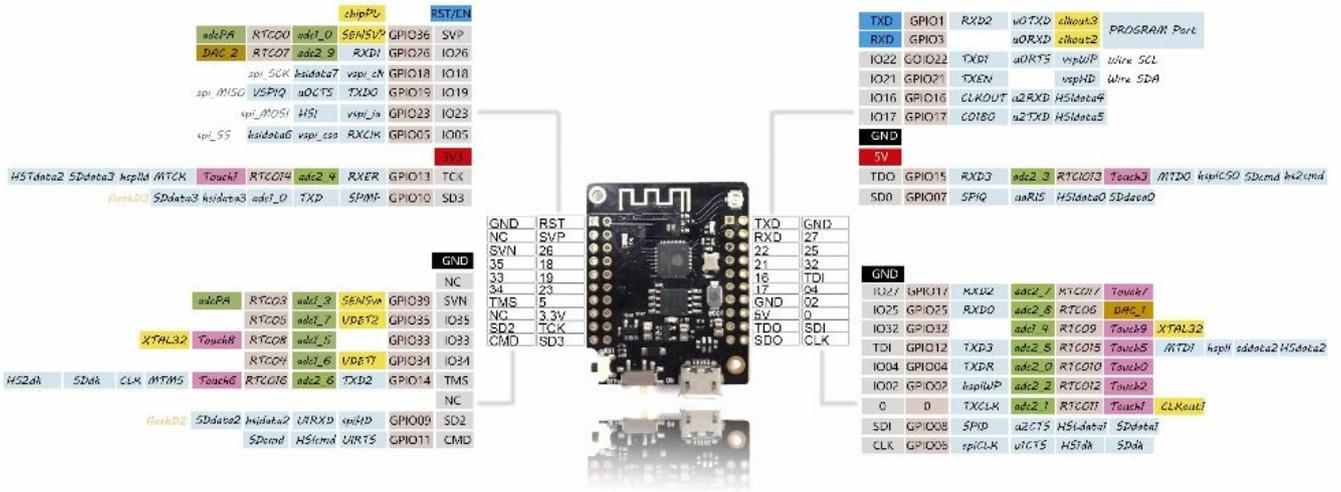
- <https://github.com/EmenstaNougat/ESP32-BlueJammer> → solo binarios
- <https://github.com/cifertech/RF-Clown> → código

## NRF24L01 Pinout



## NRF24L01+ PA/LNA Pinout





WiFi + Bluetooth Board  
4MB Flash MINI 32 v2.0

|   |  |   |  |      |     |       |     |     |     |         |      |         |       |      |      |
|---|--|---|--|------|-----|-------|-----|-----|-----|---------|------|---------|-------|------|------|
| <p><b>Power</b></p> <p>ESP32 VCC range: 2.2V-3.6V<br/>VBAT: direct to battery (and charger)<br/>VUSB: direct to USB (5V)<br/>VCC: Output of regulator 3.3V/600mA<br/>Up to 250mA during RF transmissions</p> <p><b>Wireless</b></p> <p>Wifi: 802.11 b/g/n/e/i<br/>WPA/WPA2/WPA2-Enterprise/SPS<br/>Bluetooth: Bluetooth 4.2/BLE</p> | <p><b>ESP32</b></p> <p>Dual-core Xtensa 32-bit LX6<br/>Up to 240MHz<br/>520kB internal SRAM<br/>4MB external flash</p> <p><b>Multiplexed I/Os allow up to</b></p> <ul style="list-style-type: none"> <li>18 ADC channels</li> <li>3 SPI interfaces</li> <li>3 UART interfaces</li> <li>2 I2C interfaces</li> <li>16 LED PWM outputs</li> <li>2 DACs</li> <li>10 Capacitive Touch Inputs</li> </ul> | <p><b>ADC Preamp</b></p> <p>GPIO pins 36, 37, 38, and 39 are able to be used as a low noise analog pre-amplifier</p> <p><b>Other*</b></p> <ul style="list-style-type: none"> <li>Hall Sensor</li> <li>Temp sensor (-40C to 125C)</li> <li>SD/SPIO/MMC Host Controller</li> <li>CAN Bus</li> </ul> <p><small>*On datasheet, but may not be supported yet</small></p> | <table border="1"> <tr><td>Name</td><td>ADC</td></tr> <tr><td>Power</td><td>DAC</td></tr> <tr><td>GND</td><td>SPI</td></tr> <tr><td>Control</td><td>UART</td></tr> <tr><td>Arduino</td><td>Touch</td></tr> <tr><td>GPIO</td><td>Misc</td></tr> </table> <p><small>*GPIO: Port Input Only<br/>*ADC: Pre-amplifier ADC<br/>GPIO 3.3V tolerant only</small></p> | Name | ADC | Power | DAC | GND | SPI | Control | UART | Arduino | Touch | GPIO | Misc |
| Name  | ADC  |   |  |      |     |       |     |     |     |         |      |         |       |      |      |
| Power   | DAC  |   |  |      |     |       |     |     |     |         |      |         |       |      |      |
| GND   | SPI  |   |  |      |     |       |     |     |     |         |      |         |       |      |      |
| Control   | UART   |   |  |      |     |       |     |     |     |         |      |         |       |      |      |
| Arduino   | Touch  |   |  |      |     |       |     |     |     |         |      |         |       |      |      |
| GPIO  | Misc   |   |  |      |     |       |     |     |     |         |      |         |       |      |      |

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