

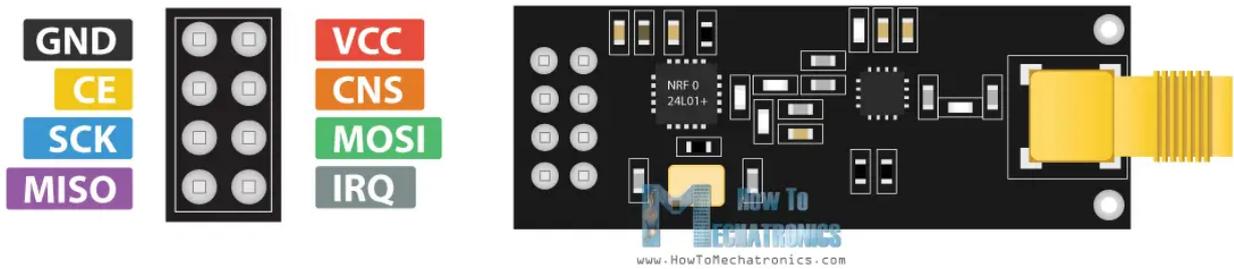
BlueJammer

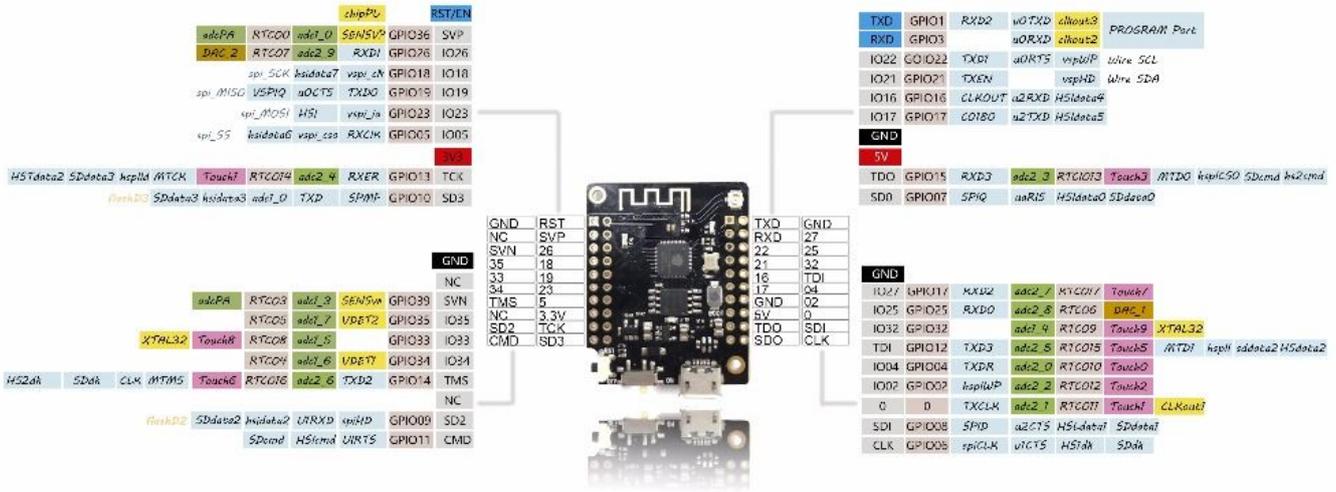
- <https://github.com/EmenstaNougat/ESP32-BlueJammer> → solo binarios
- <https://github.com/cifertech/RF-Clown> → código

NRF24L01 Pinout



NRF24L01+ PA/LNA Pinout





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

Power
ESP32 VCC range: 2.2V-3.6V
VBAT: direct to battery (and charger)
VUSB: direct to USB (5V)
VCC: Output of regulator 3.3V/600mA
Up to 250mA during RF transmissions

Wireless
Wifi: 802.11 b/g/n/e/i
WPA/WPA2/WPA2-Enterprise/SPS
Bluetooth: Bluetooth 4.2/BLE

ESP32
Dual-core Xtensa 32-bit LX6
Up to 240MHz
520kB internal SRAM
4MB external flash

Multiplexed I/Os allow up to
1B ADC channels
3 SPI interfaces
3 UART interfaces
2 I2C interfaces
2 I2S interfaces
16 LED PWM outputs
2 DACs
10 Capacitive Touch Inputs

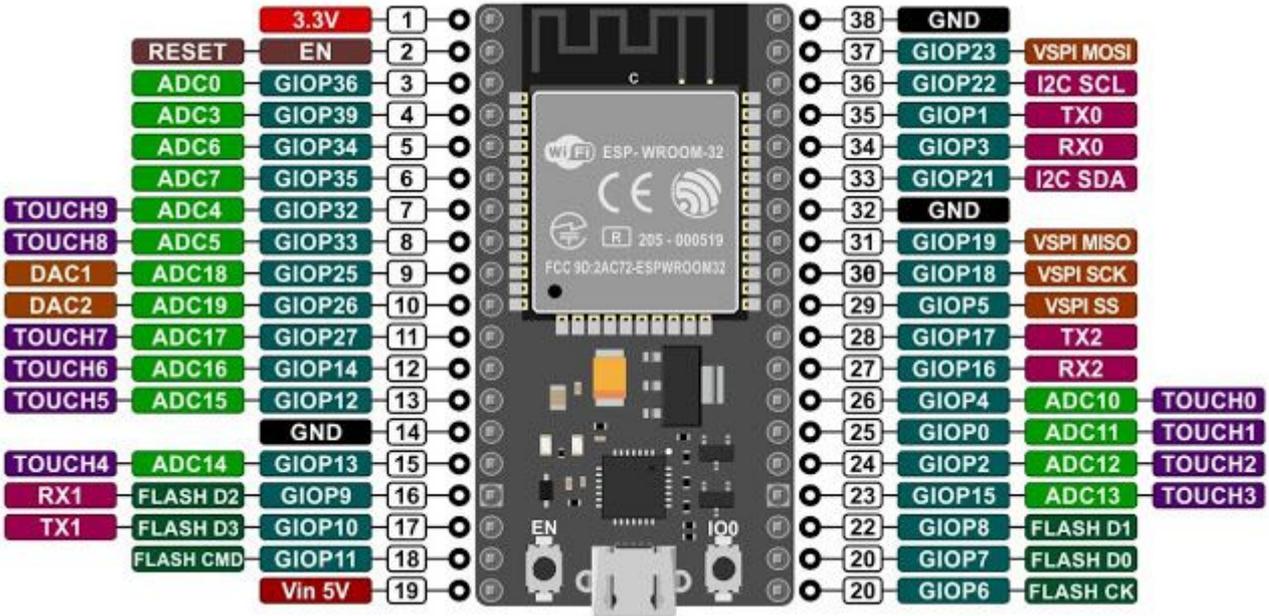
ADC Preamp
GPIO pins 36, 37, 38, and 39 are able to be used as a low noise analog pre-amplifier

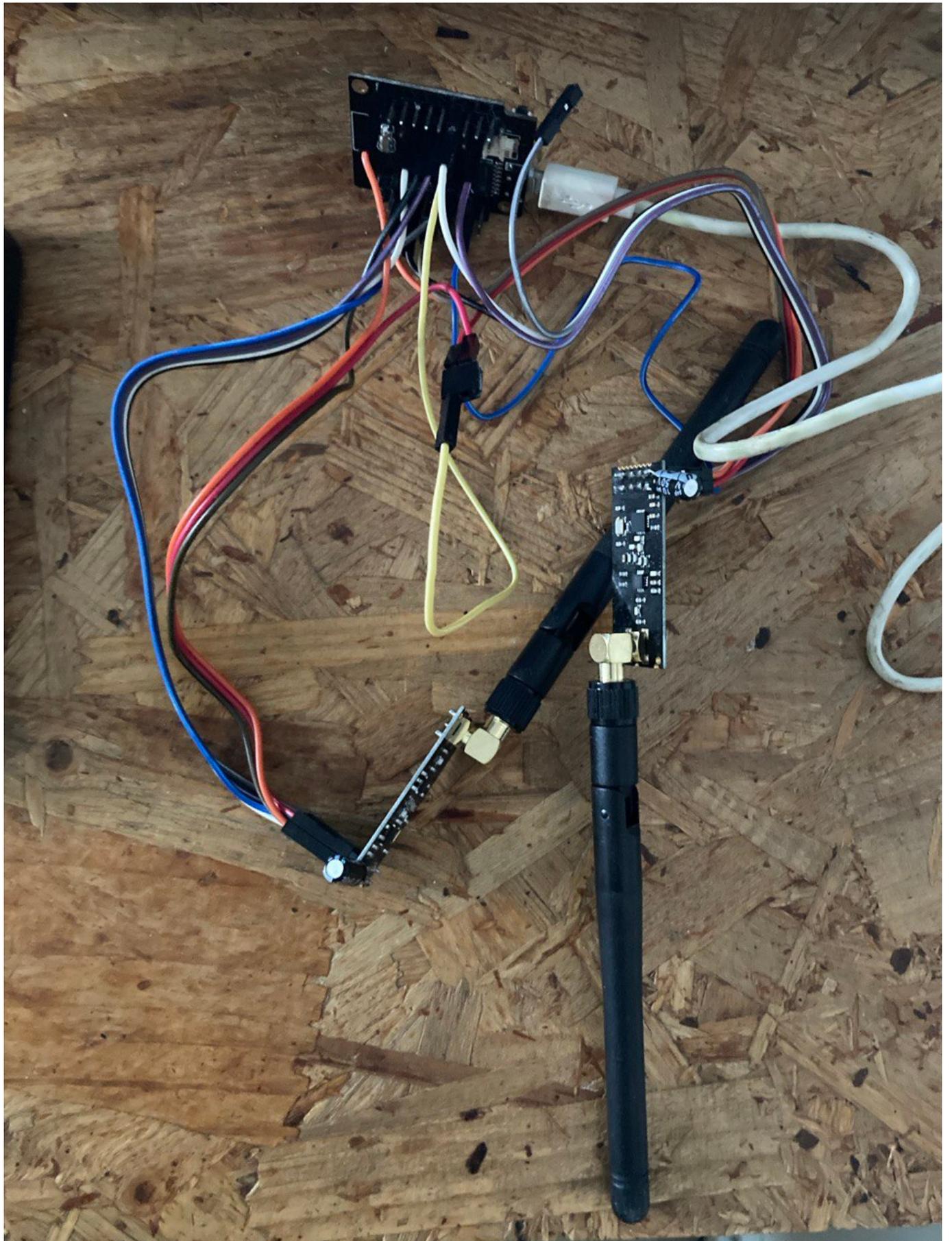
Other*
Hall Sensor
Temp sensor (-40C to 125C)
SD/SPIO/MMC Host Controller
CAN Bus

*On datasheet, but may not be supported yet

Name | **ADC** | **Power** | **DAC** | **GND** | **SPI** | **Control** | **UART** | **Arduino** | **Touch** | **GPIO** | **Misc**

*GPIO: Port Input Only
*ADC: Pre-amplifier ADC
GPIO 3.3V tolerant only





Firmware upload

- Descarga binarios para bootloader, particiones y firmware de <https://github.com/EmenstaNougat/ESP32-BlueJammer/archive/refs/tags/ESP32-BlueJammer-v2.zip> dentro de la carpeta Firmware_Files están los archivos
- El instalador web no funcionó (<https://esp32-bluejammerflasher.pages.dev/>)
- Se sube el firmware usando esptool

```
↳λ # Upload with bootloader and partitions (if you have separate files)
    esptool --chip esp32 --port /dev/ttyUSB0 --baud 921600 \
      --before default_reset --after hard_reset \
      write_flash 0x1000 bootloader.bin \
      0x8000 partitions.bin \
      0x10000 firmware.bin
```

El firmware una vez cargado de manera exitosa arranca pero presenta errores al momento de leer los chips nRF24

ESP32-BLUEJAMMER

Firmware : Combo-Channel-Select (BT-BLE-WiFi-RC)

BY EME NSTA

!Educational purposes only!

<https://github.com/EmenstaNougat/ESP32-BlueJammer>

I'm not responsible for your actions!

VSPI - FAILED

!!! SP (standard power) start failure! VSPI nRF24 module could NOT be initialized! #####

HSPI - FAILED

!!! HP (high power) start failure! HSPI nRF24 module could NOT be initialized! #####
State 1: Bluetooth

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