

# Contador Personas

- Nuestro fork →
- Basado en proyecto → <https://github.com/cyberman54/ESP32-Paxcounter>

```

// ----- Paxcounter user config file -----
//
// --> adapt to your needs and use case <--
//
// Note: After editing, before "build", use "clean" button in PlatformIO!

```

- LILYGO® TTGO MINI 32 V2.0 ESP32 WiFi bluetooth Module

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**

- 18 ADC channels
- 3 SPI interfaces
- 3 UART interfaces
- 2 I2C interfaces
- 2 I2S interfaces
- 14 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/SDIQ/MMC Host Controller
- CAN Bus

\*On software, but may not be supported yet

Name	ADC
DAC	
GND	
SPI	
Control	UART
Arduino	Touch
GPIO	Misc

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

- Project issue 299: Add configurations to send data over wifi → <https://github.com/cyberman54/ESP32-Paxcounter/issues/299>
- Project issue 331: Running the program on a simple ESP32 board (without Lora) → <https://github.com/cyberman54/ESP32-Paxcounter/issues/331>
- Project issue 612: Bluetooth: observations/questions → <https://github.com/cyberman54/ESP32-Paxcounter/issues/612>
- Cambiar versión en platformio.ini

#1: BLE on/off status is persisted via non volatile RAM. Initially the mode is taken from BLECOUNTER setting in paxcounter.conf. If you reflash the device after flashing it with default BLECOUNTER=0 you need to alter the BLE mode, either by rcommand, or by clearing NV RAM. Clearing NV RAM during startup can be enforced by modifying the version number. Yes, this is a crappy logic. Pull requests for improvement are welcome.

#2 scan detection time and, thus, exploration rate, of Wifi and BLE sniffing differ. To compare exploration rates it is necessary to average samples over time. Since ESP32 has only 1 RF radio, scanning of wifi devices has a 1:13 ratio, while BLE has 1:3, so BLE packets can be faster scanned, but it depends on the device, if/when a BLE packet is sent.

You could use the new corona warn app as a BLE packet generator.

```
[common]  
; for release_version use max. 10 chars total, use any decimal format like "a.b.c"  
release_version = 1.9.998
```

- <https://github.com/cyberman54/ESP32-Paxcounter#sd-card>
-  Add support for 64x48 display, now it is only supported 128x64 (display.cpp)

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