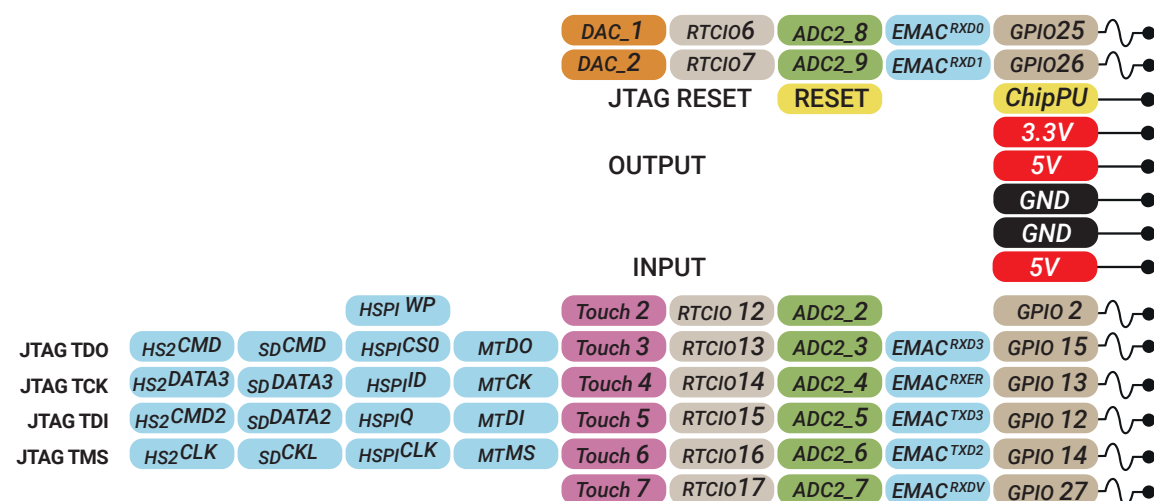
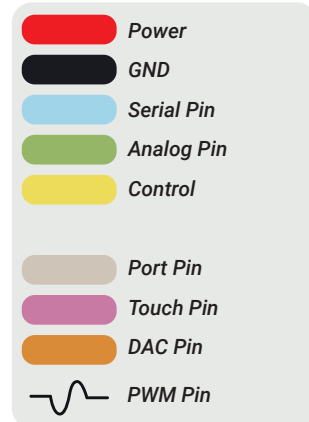


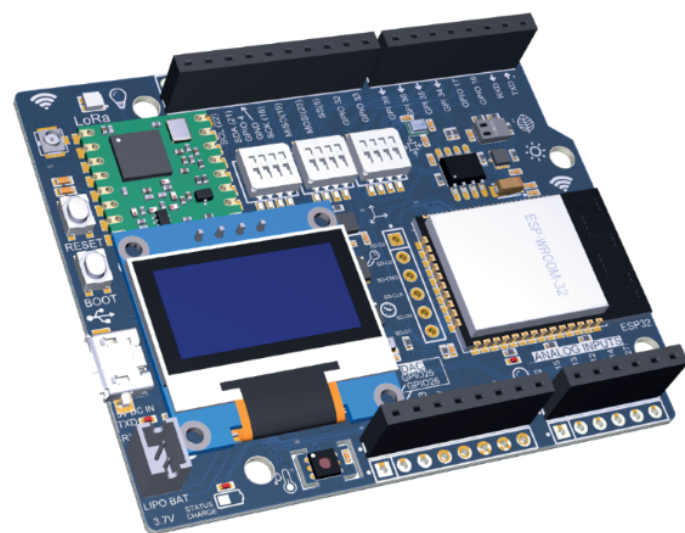
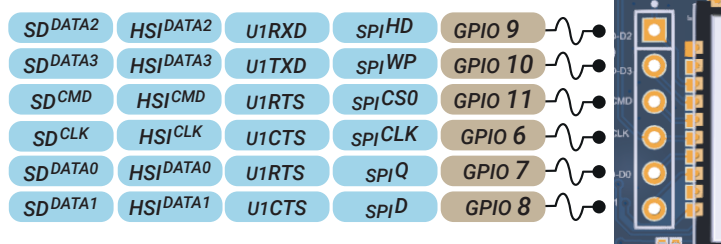
EXPRESSIF IDF

ARDUINO IDE

Discover 32



SD CARD



1. External Battery Connector (Li-Polymer / Li-Ion Single Cell)
2. Environmental Sensor: Precision Temperature and Relative Humidity Sensor, Silicon Labs SI7021
3. Integrated Li-Polymer / Li-Ion Battery Charge management controller, Microchip MCP73831
4. USB Micro B Connector, USB program and Debugger
5. BOOT mode button (ROM serial bootloader)
6. RESET button
7. LoRaTM Modem, Low Power Long Range Transceiver Radio Module 868 Mhz, RFM95W
8. Slot for Display OLED I2C 0.95inch
9. High Efficiency DC-DC Converter Power supply
10. Single Chip USB to UART Bridge , silicon Labs CP2102
11. Tiny Real Time Clock and calendar, NXP PCF85063TP
12. Cryptographic accelerator with Secure Hardware-based Key Storage, Microchip ATECC508A
13. Motion tracking, 3D accelerometer and 3D gyroscope, ST Electronics LSM6DS3
14. Addressable RGB color Led , Worldsemi co. WS2812B
15. Dip Switch settings for using Lora Modem
16. Dip Switch Settings for using Interrupts or I2C sensors
17. Dip Switch Settings for using PSRAM and the addressable LED WS2812B
18. 4MB PSRAM * Optional
19. Absolute Barometric Digital Sensor, Bosch BMP280
20. Indoor Air Quality Sensor

- Digital gas sensor solution that senses a wide range of Total Volatile Organic Compounds (TVOCs), including equivalent carbon dioxide (eCO2) and metal oxide (MOX) levels. AMS CCS811
21. Circuit for Automatic Upload / Flashing ESP32
 22. Expressif ESP32-WROOM-32 module (CPU, Memory and Wifi/Ble Wireless connectivity)
 23. UV index and Ambient Light Sensor, Silicon Labs SI1133
 24. Status Led Blue on GPIO17
 25. U.FL Connector for External Antenna 868 MHz.
 26. Battery charging status indication Led
 27. UART0 activity indication Leds

Globaltronic
spreading technology

Created By Paulo Onofre

