

## COLOR DIAGRAM

- Chip Pin Number
- GPIO Number
- Touch Channel
- ADC Channel
- SCL
- SDA
- SPI
- UART
- DAC
- Ground
- Power
- ✓ PWM Enabled Pin any GPIO up to 8 channels

# GroundStudio Carbon S2

Features highly integrated **ESP32-S2** with 2.4 GHz WiFi, 4MB Flash, 320kB SRAM, 128kB ROM, 18 GPIO, 10 ADC, 8 touch sensitive pins, 2 UART, I<sup>2</sup>C 3V3 adapter and one RGB smart LED



## RGB LED

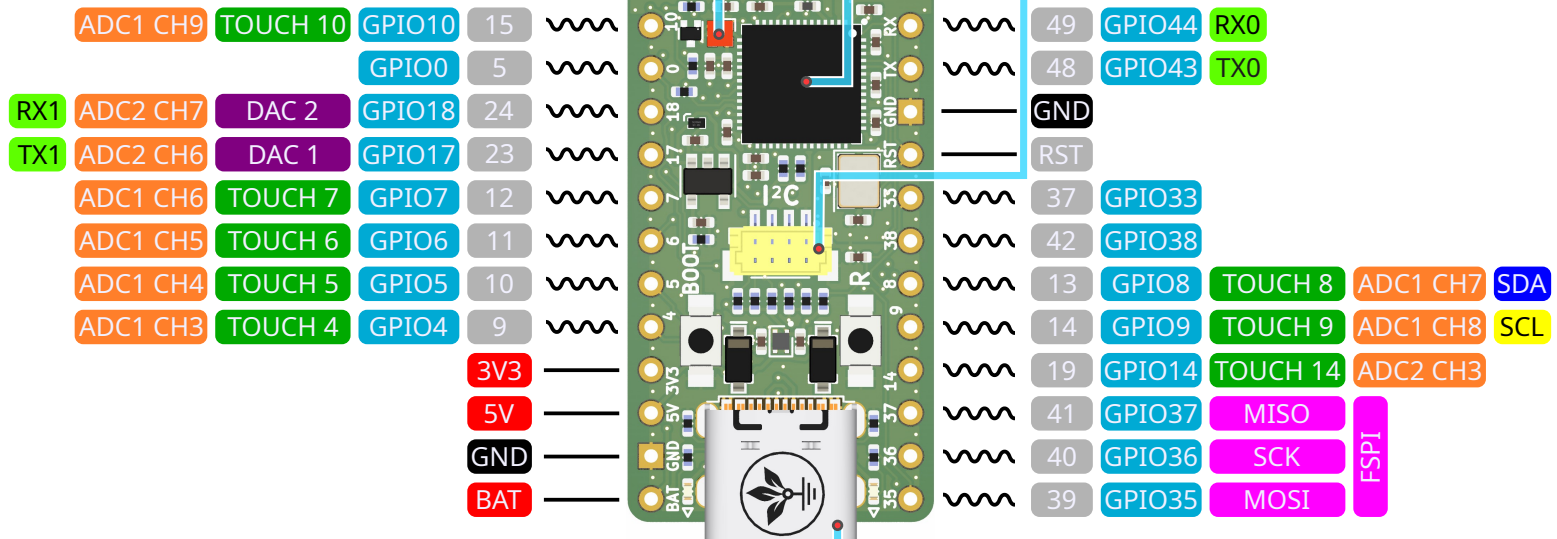
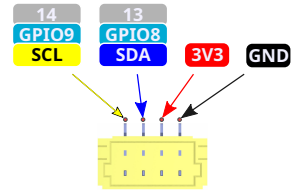
ADC1 CH0	GPIO1	6	Data
ADC1 CH1	GPIO2	7	Power

## ESP32-S2

Highly-integrated, low-power System-on-Chip (SoC)

## I<sup>2</sup>C 3V3

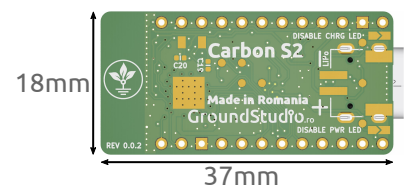
I<sup>2</sup>C SH adapter with 1.0mm pitch, Qwiic and StemmaQT compatible



## USB C

USB 2.0 type C for double-sided connection

## BACK SIDE



GroundStudio.ro

Board: "GroundStudio Carbon S2" UIECRE\_GS REV 0.0.2

Credits: "TinyS2 Rev: P1" by Unexpected Maker

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Pinout REV: 1.2