

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, I²C 3V3 adapter and one RGB smart LED



RGB LED

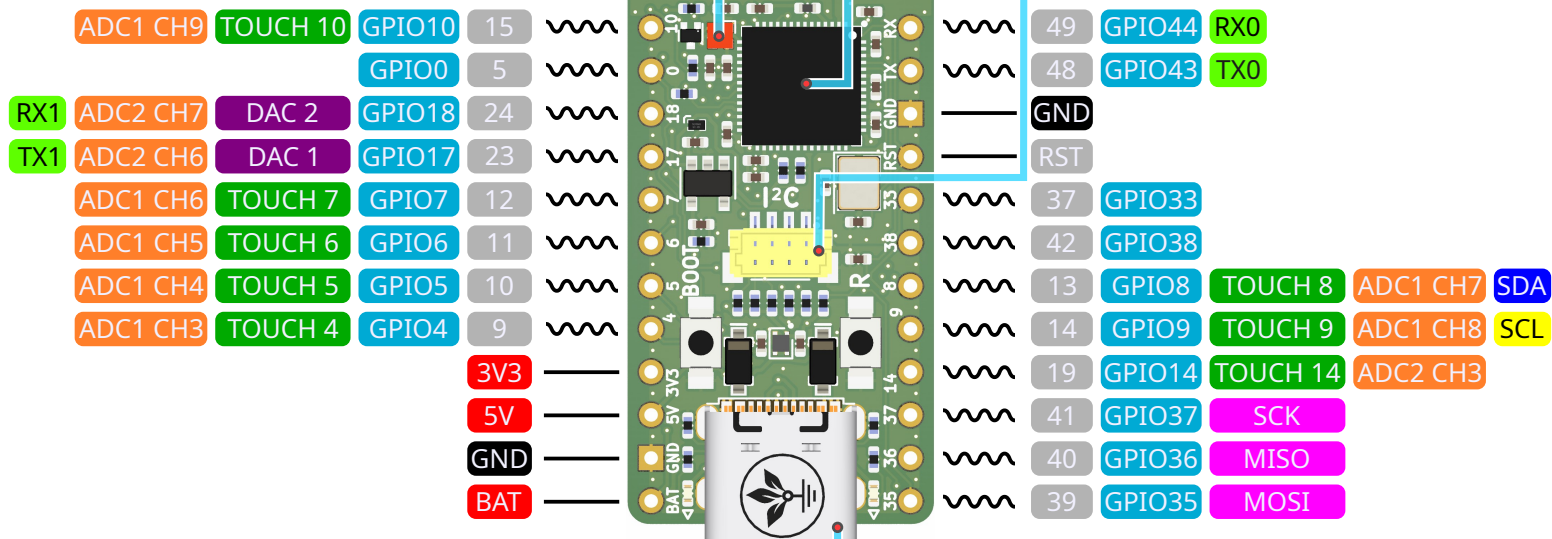
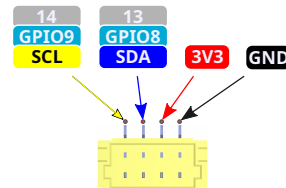
ADC1 CH0	GPIO1	6	Data
ADC1 CH1	GPIO2	7	Power

ESP32-S2

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

I²C 3V3

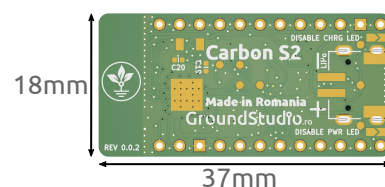
I²C SH adapter with 1.0mm pitch, Qwiic and StemmaQT compatible



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: 1.1