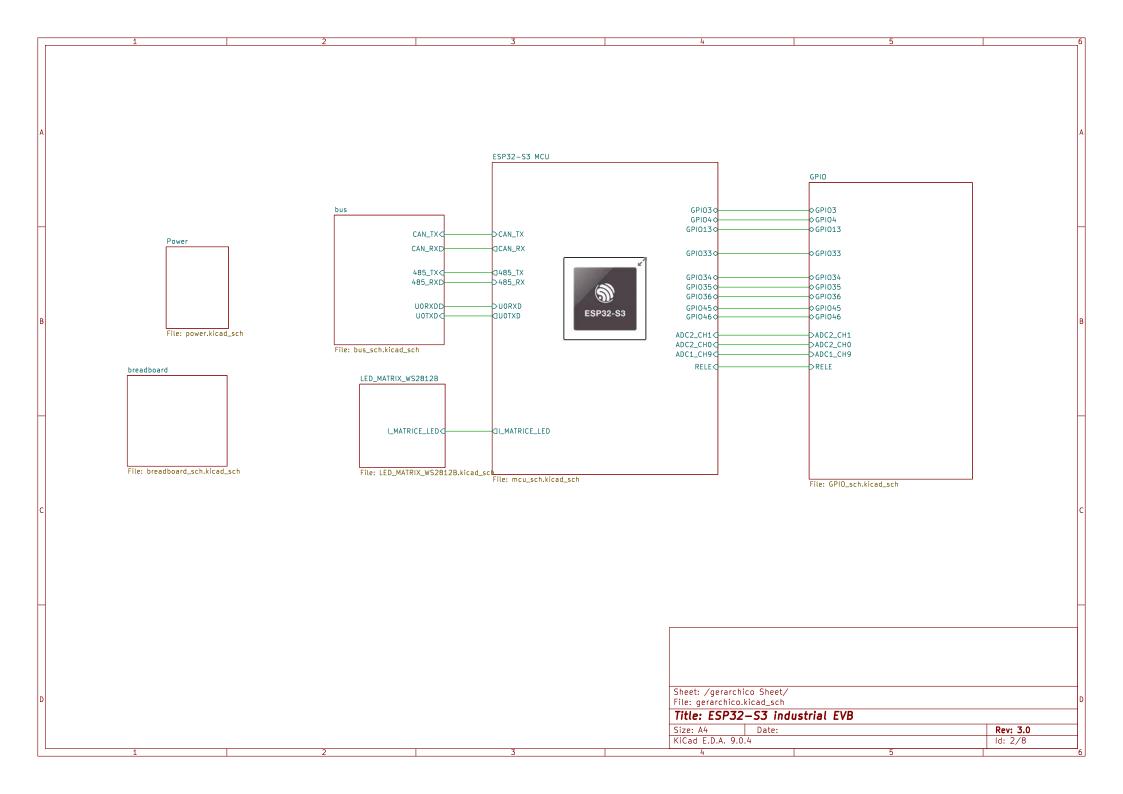
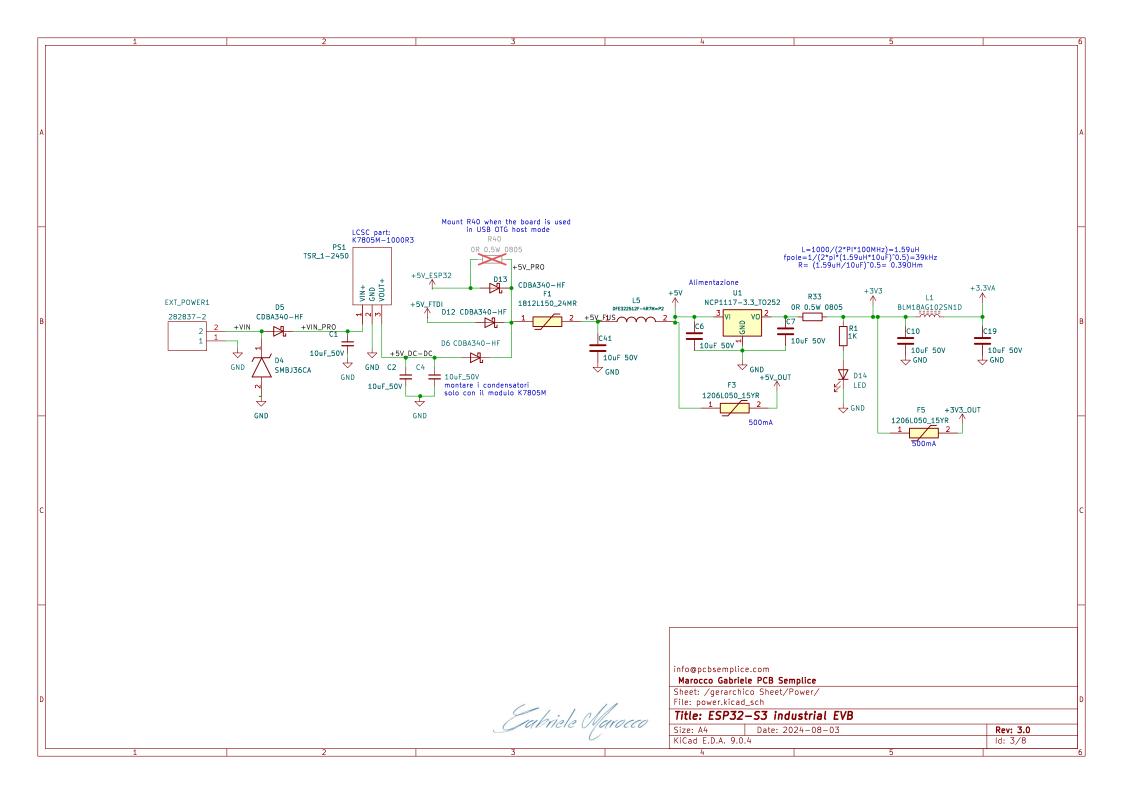
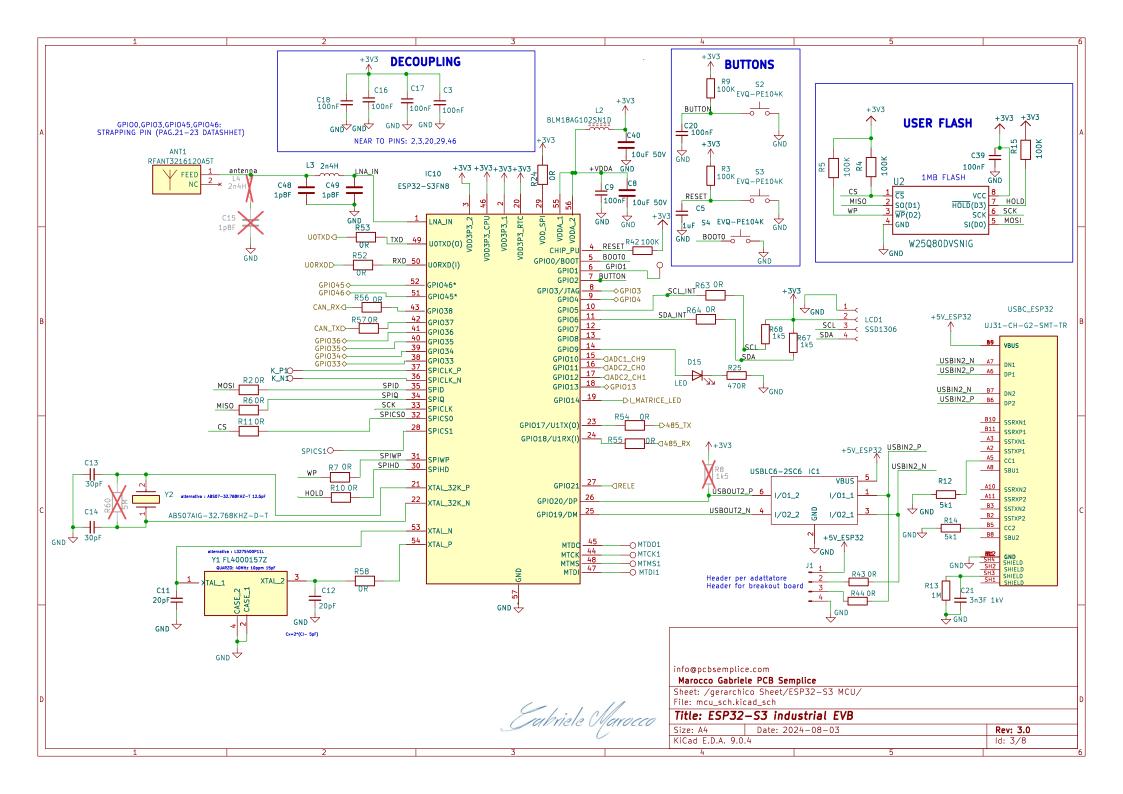
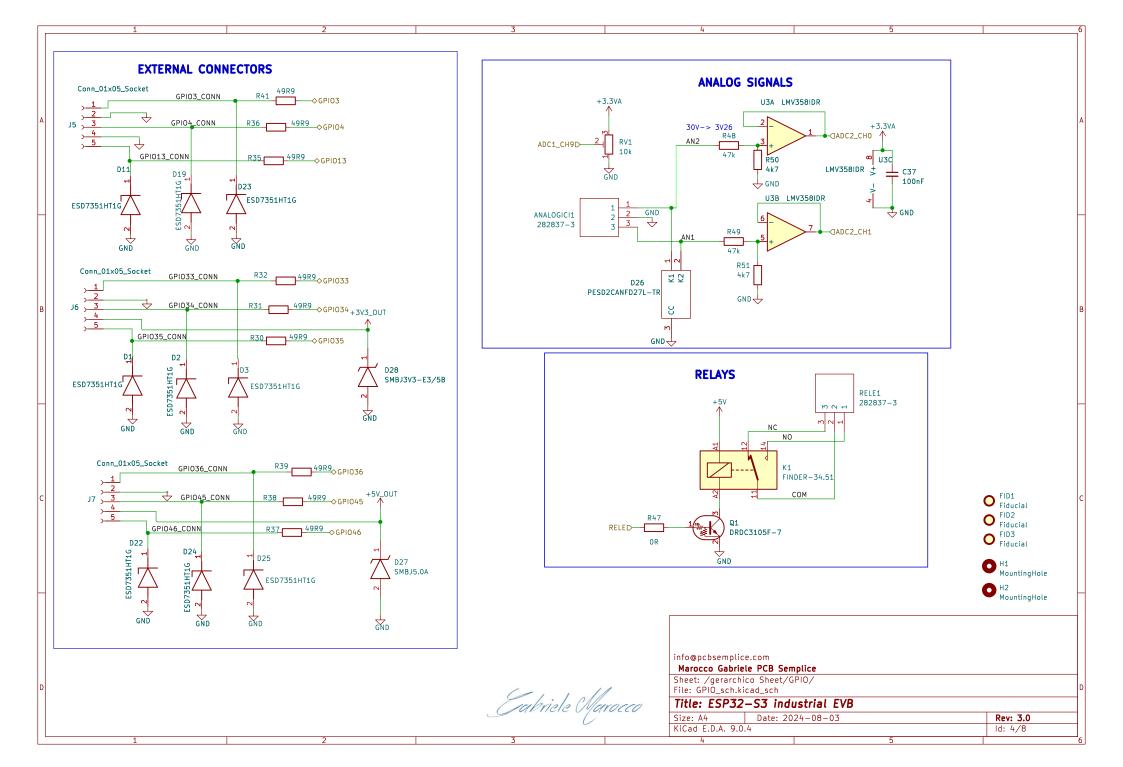
This board is based on the microcontroller ESP32-S3 Questa scheda si basa sull'integrato ESP32-S3 There are the following physical communication interfaces Ha le sequenti interfacce - debug USB (it is connected to a UART port of ESP32-S3 - USB di debug (collegată a una porta UART dell'integrato native USB – USB nativa - isolated CAN BUS with termination resistor - CAN BUS isolato - isolated RS485 with termination resistor - RS485 isolata There is a 9 RGB LED matrix (WS2812B) E' presente una matrice di 9 LED (3X3) RGB WS12B There is a free section of testpoints for experiments E' contenuta una sezione libera destinata ad esperimenti Alimentazione DC-DC converter isolato Power supply Isolated DC-DC converter connettore USB-C USB-OTG matrice 3x3 RGB LED (WS2812B) ESP32-S3 RGB LED WS2812B 3x3 matrix FT232 Transceiver RS485 isolatore digitale HART digital isolator ESP32-S3 Antenna TWAI isolatore digitale Transceiver CAN-BUS digital isolator 6A Relay GPIO protetti protected GPIO Display SSD1306 Pulsante Tactile switch gerarchico Sheet 2 ingressi analogici 0-30V info@pcbsemplice.com millefori libera 2 analog inputs (0-30V) Marocco Gabriele PCB Semplice quick prototype breadboard File: ESP32 ind EVB V3.kicad sch File: gerarchico.kicad_sch Title: ESP32-S3 industrial EVB Size: A4 Date: 2024-08-27 Rev: 3.0 KiCad E.D.A. 9.0.4 ld: 1/8









matrice di LED RGB (WS2812) WS2812 RGB LED matrix C38 100nF GND LED2 LED3 LED4 Q2 DMG1012T R34 4k7 WS2812B WS2812B WS2812B DIN RGBDOUT DIN RGBDOUT I_MATRICE_LEDD LED_DOUT1 +5V GND +5٧ LED7 WS2812B LED5 WS2812B LED6 WS2812B DIN RGBDOUT DIN RGBDOUT DIN RGBDOUT _LED_DOUT2 LED_DOUT1 4 GND ↓ GND 🕁 GND 🕁 +5V **↑** +5V Λ LED10 LED9 LED8 WS2812B WS2812B WS2812B DIN RGBDOUT RGBDOUT LED_DOUT2 4 RGBDOUT ODOUT3 GND GND↓ GND 🕁 GND↓ info@pcbsemplice.com Marocco Gabriele PCB Semplice Sheet: /gerarchico Sheet/LED_MATRIX_WS2812B/ File: LED_MATRIX_WS2812B.kicad_sch Tabriele Marocco Title: ESP32-S3 industrial EVB Size: A4 Date: 2024-08-03 Rev: 3.0 KiCad E.D.A. 9.0.4 ld: 5/8

