

Questa scheda si basa sull'integrato ESP32-S3
Ha le seguenti interfacce

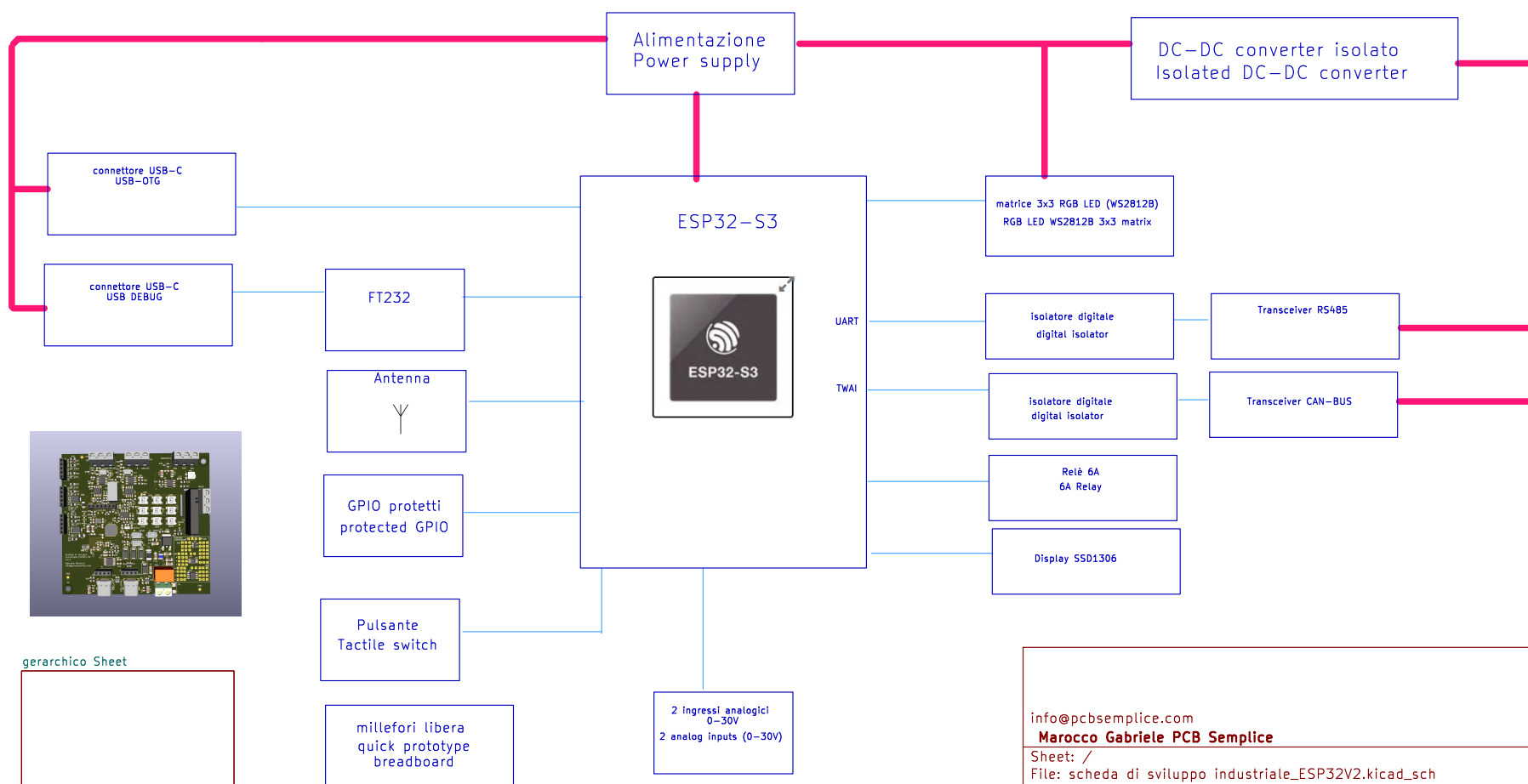
- USB di debug (collegata a una porta UART dell'integrato
 - USB nativa
 - CAN BUS isolato
 - RS485 isolata

E' presente una matrice di 9 LED (3X3) RGB WS12B
E' contenuta una sezione libera destinata ad esperimenti

This board is based on the microcontroller ESP32-S3
There are the following physical communication interfaces

- debug USB (it is connected to a UART port of ESP32-S3
 - native USB
 - isolated CAN BUS with termination resistor
 - isolated RS485 with termination resistor

There is a 9 RGB LED matrix (WS2812B)
There is a free section of testpoints for experiments



gerarchico Sheet

File: gerarchico.kicad_sch

info@pcbsemplce.com

Marocco Gabriele PCB Semplice

Sheet: /

File: scheda di sviluppo industriale_ESP32V2.kicad_sch

Title: ESP32-S3 industrial EVB

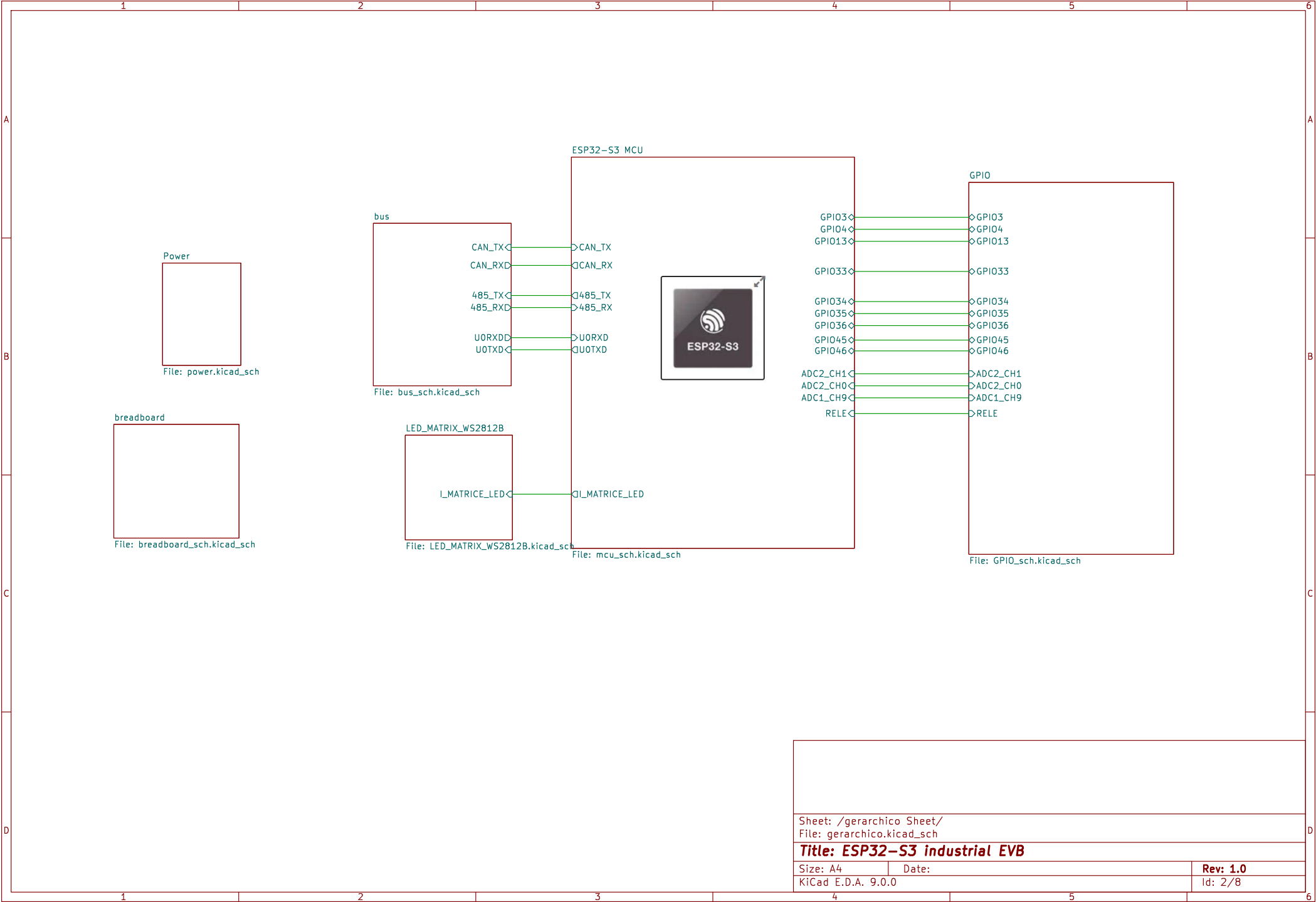
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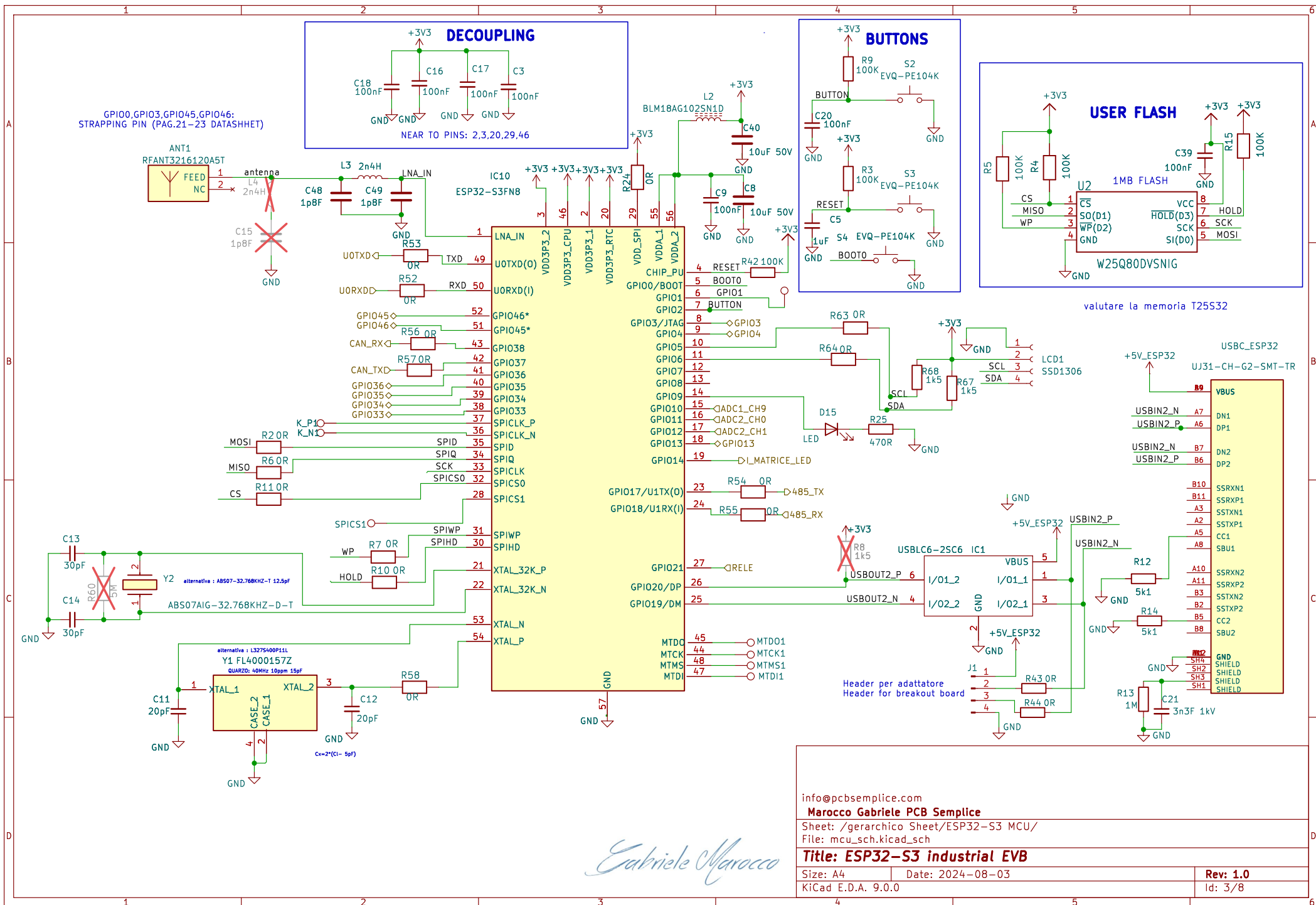
Date: 2024-08-03

Rev: 1.0

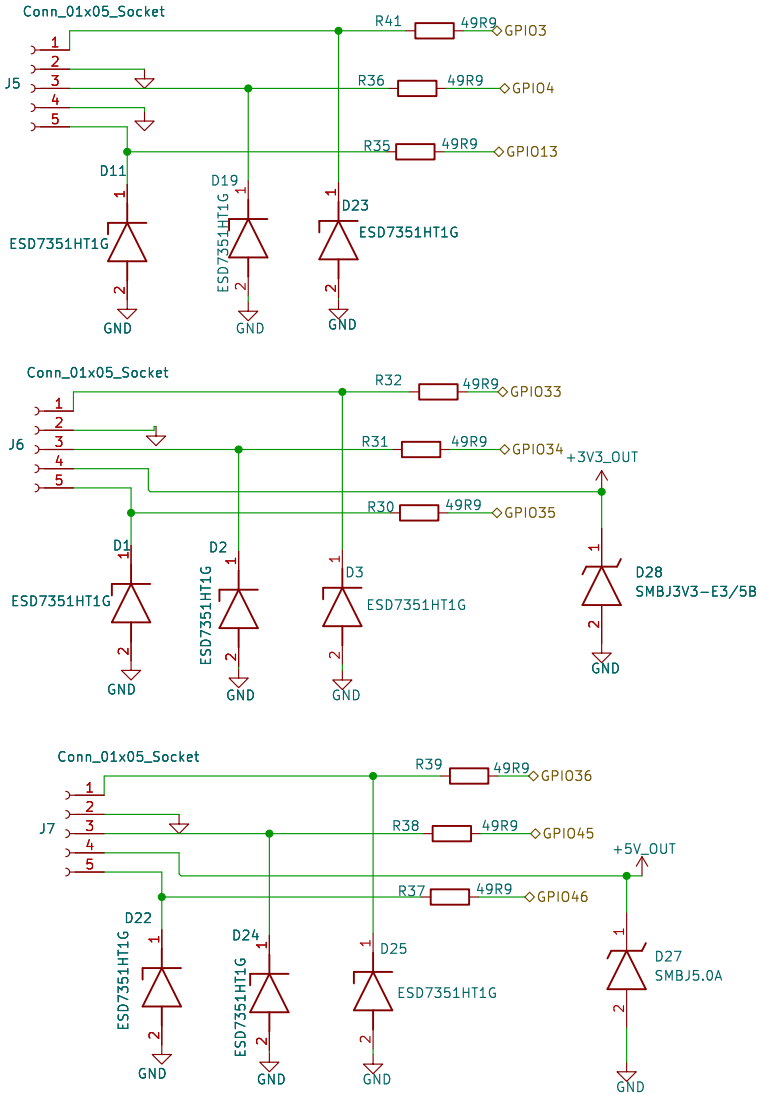
KiCad E.D.A. 9.0.0

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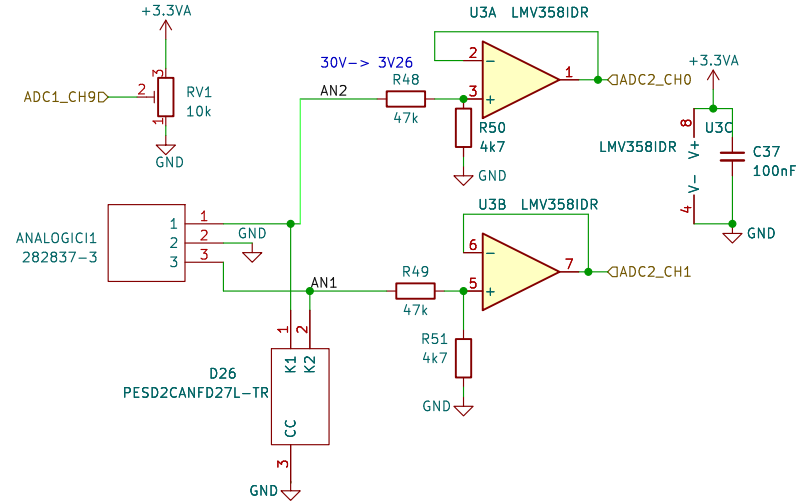




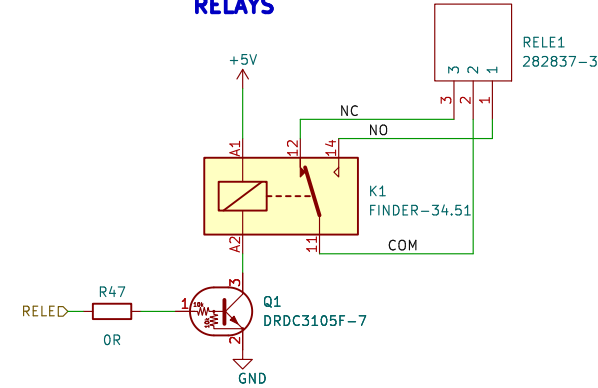
EXTERNAL CONNECTORS



ANALOG SIGNALS



RELAYS



- FID1 Fiducial
- FID2 Fiducial
- FID3 Fiducial
- FID4 Fiducial
- H1 MountingHole
- H2 MountingHole

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Sheet: /gerarchico Sheet/GPIO/

File: GPIO_sch.kicad_sch

Title: ESP32-S3 industrial EVB

Size: A4

Date: 2024-08-03

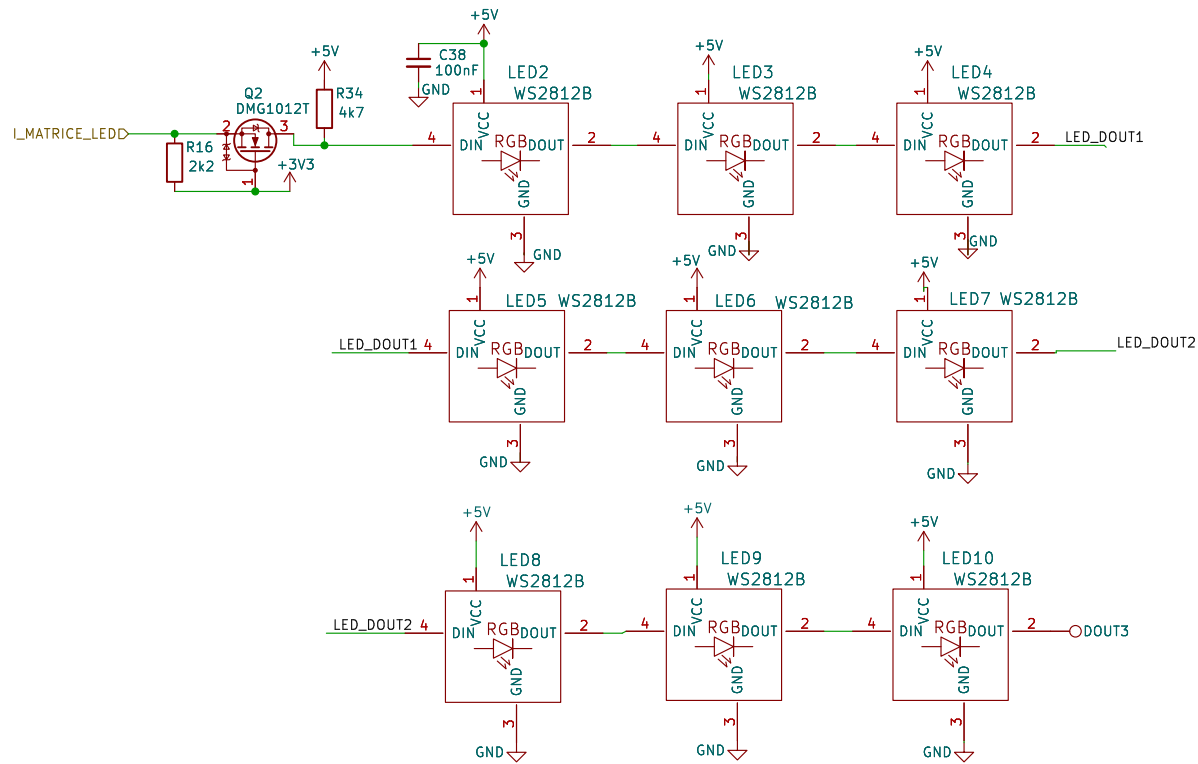
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matrice di LED RGB (WS2812)
WS2812 RGB LED matrix



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Sheet: /gerarchico Sheet/LED_MATRIX_WS2812B/

File: LED_MATRIX_WS2812B.kicad_sch

Title: ESP32-S3 industrial EVB

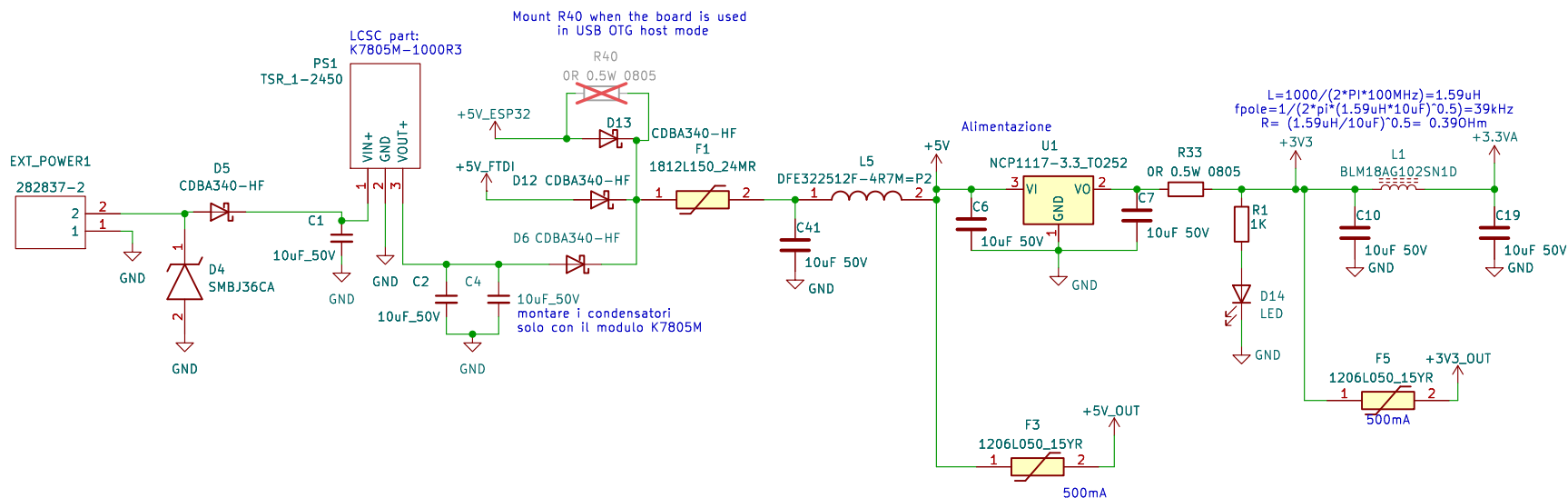
Size: A4

Date: 2024-08-03

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Id: 5/8



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Sheet: /gerarchico Sheet/Power/

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Title: ESP32-S3 industrial EVB

Size: A4

Date: 2024-08-03

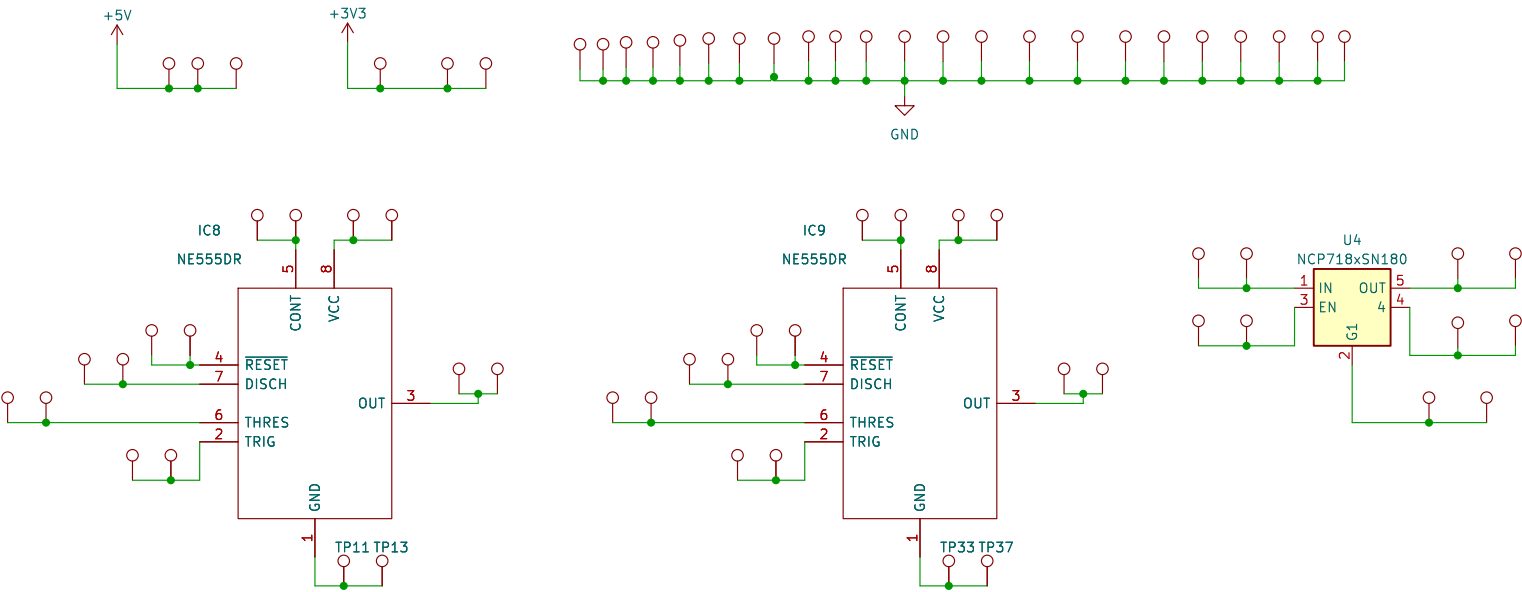
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Rev: 1.0

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Testpoint e piazzole libere per esperimenti

Free testpoints and pads for experiments



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Sheet: /gerarchico Sheet/breadboard/

File: breadboard_sch.kicad_sch

Title: ESP32-S3 industrial EVB

Size: A4

Date: 2024-08-03

Rev: 1.0

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RS-485

CAN-BUS

USB-UART

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Marocco Gabriele PCB Semplice

Sheet: /gerarchico Sheet/bus/

File: bus_sch.kicad_sch

Title: ESP32-S3 industrial EVB

Size: A4

Date: 2024-08-03

KiCad E.D.A. 9.0.0

Rev: 1.0

Id: 8/8

