DIYBMS CONTROLLER V4.3
Revision BETA-8a28b7c

ESP32 DEVKIT C

ESP USB SOCKET

diyBMS

Jumpers
[JP1] 120ohm CANBUS
Terminator [not connected]

[JP4] 120ohm RS485
Terminator [not connected]

[JP5] CANBUS voltage [5v default]
Track needs to be broken
to change

Watchdog micro
controller (optional)

ATtiny841-SSU

SD CARD

SD_CS
SD_MOSI
SD_MISO
SD_SCK

VCC
GND
CS
RESET
DC
MOSI
SCK
LED
MISO
T_CLK
T_CS
T_DIN
T_DO
T_IRQ

I2C Debug

SCK SDA GND

RE4   RE3   RE2   RE1

input   input

5V PWR

GND   +5Volt

5V   3.3V   JP5

TJA1057GT/3

SN65HVD75DR

TCA6408APWR

TCA9534A

RS485

input
+5V A   B GND

E.Stop

ISP

I/O 1
input
A   B   C   D

CANBUS
input
+5V GND CANH CANL

RX   TX

120ohm

122.500 mm

87.500 mm

POWER INPUT
DC INPUT 5V REGULATED
SUPPLY @ 2AMP MIN

+5Volt
+5Volt
GND
GND

RE3
Norm. Open
Common

RE4
RE3

RE2
Norm. Open
Common

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github.com/stuartpittaway/diyBMSv4Hardware
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KiCad

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Sheet:
File: tmpwzsopwix.kicad_pcb
Title: DIYBMS ESP32 Controller
Size: A4   Date: 2021-02-21   Rev:
KiCad E.D.A. pcbnew 5.1.9+dfsg1-1bpo10+1   Id: 1/1