Additonnal resource: GitHub

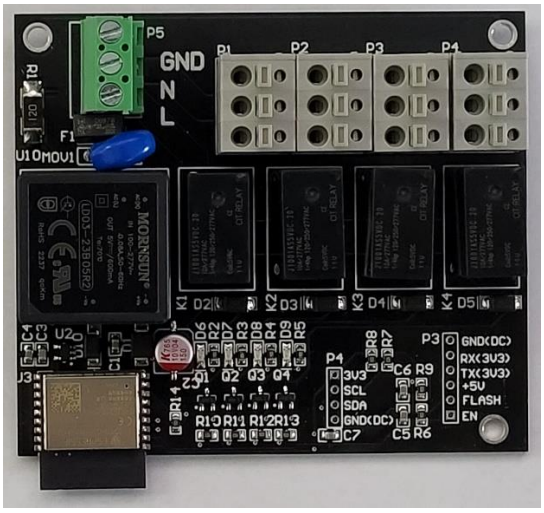
Cyberserre

Date:05/18/2023

Model #: R1.1.0 **Description:** Relay Board (4X 5A outputs AC)

FEATURES:

- ESP32 C3 based Board
- Open-Source Firmware available on our GitHub page
- Self powered, no need external power supply
- Use certified power supply (IEC, EN, UL/cUL)
- Exposed I2C, UART, EN and Flash pins
- 2.4 GHz WiFi (802.11 b/g/n)
- Bluetooth® 5 module
- 4 outputs NO SPST



APPLICATIONS:

- Greenhouse automation
- Fan
- Lightning
- Pump
- Humidifier
- Dryer
- Small heater

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ELECTRICAL CHARACTERISTICS

Parameter	**Min**	**Typ**	**Max**	**unit**
Input Voltage	85		270	Vac
Frequency	47		63	Hz
No load power consumption[1]			3	W
Maximum current (per relay)			5	A
Maximum current (total)			10	A
Contact life @5A		100k		Cycles
Operating Temperature	-40		85	°C

Header Description

Header	Description	ESP32 Pin	Note
P1	Relay output 1	GPIO0	The GND, Neutral and Line pin are identified on the board. All the outputs are sharing the GND and Neutral. For the relays, only the Line are controlled (NO)
P2	Relay output 2	GPIO1	
P3	Relay output 3	GPIO3	
P4	Relay output 4	GPIO4	
P5	AC INPUT	NC	
P6[2]	I2C extension	GPIO05(SCL) GPIO04(SDA)	3V3, SCL, SDA and GND are identified on the board
P7[3]	UART/FLASH	GPIO20(RX) GPIO21(TX)	+5V, RX(3V3), TX(3V3), FLASH, EN and GND are identified on the board.

[1] With all(4) relays activated

[2] In the first pcb batch, this header is identified P4.

[3] In the first pcb batch, this header is identified P3.

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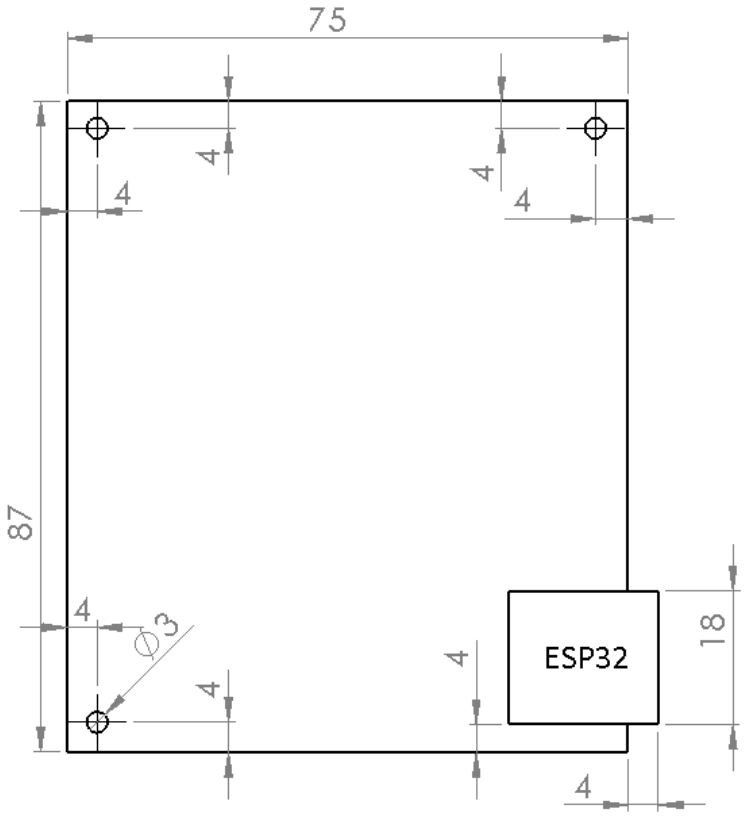
Mechanical drawing



All measures are in mm