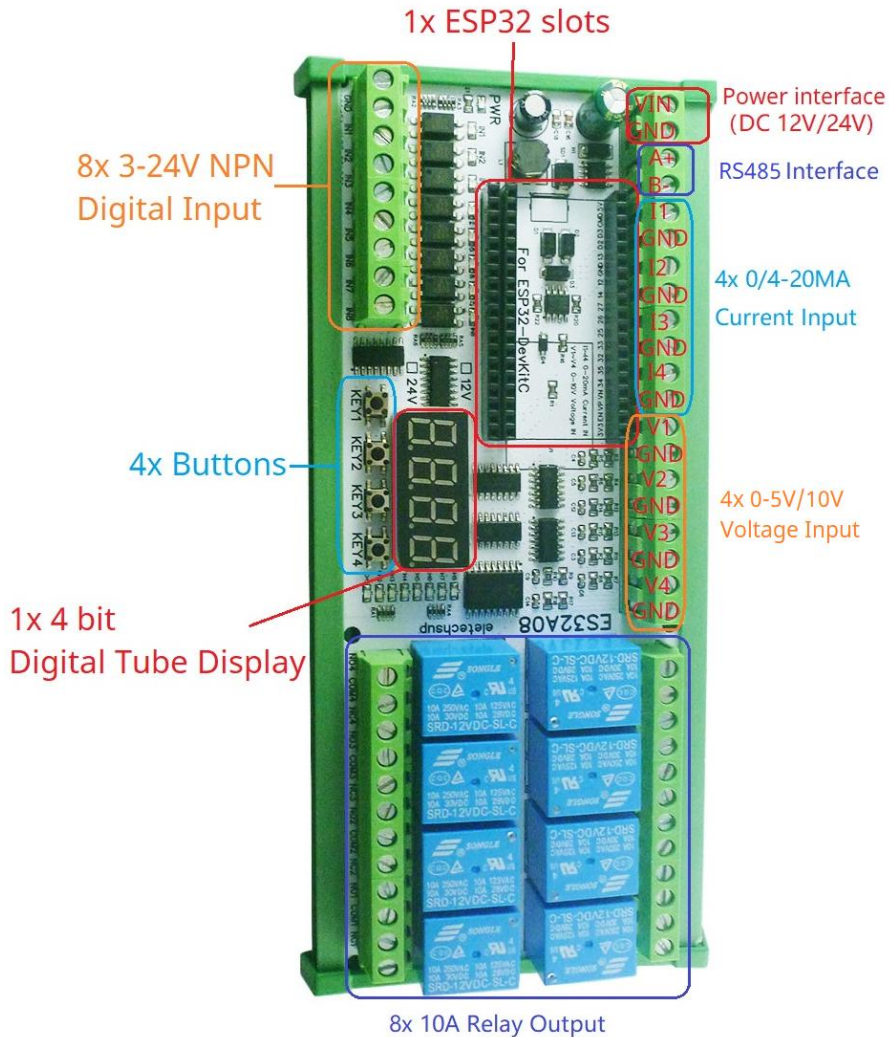


ES32A08 ESP32 8 CH Analog Relay Expansion Board Manual

38-pin ESP32 Board 1 : Width is about 27.5MM (Pin header spacing: 25.4MM)

38-pin ESP32 Board 2 : Width is about 25MM (Pin header spacing: 22.5MM)



Note: PWR LED does not light up when powered on. Driven by the IO port of the ESP32

Product Features:

1 Operating voltage: DC 12V/DC 24V

2 Operating Current : Standby current (Digital tube OFF) 14MA, Standby current 51MA (Digital tube ON), 1 relay open 76MA, 2 relays open 107MA, 3 relays open 133MA, 4 relays open 166MA, 5 relays open 185MA, 6 relays open 213MA, 7 relays open 258MA, 8 relays open 291MA

3 On-board resources: 1x RS485 Interface 8x opto-isolated inputs (low level trigger, NPN type), 4x 0/4-20MA Current Input, 4x 0-5V/10V Voltage Input, 4x buttons, 1x 4 bit digital tube display, 1x ESP32 slots, 8x relay outputs

4 size 180*72*19mm(Only Board)

5 Weight : 189g(Only Board), 317g(with shell)

As long as you write ESP32 code, You can use it to achieve a variety of delay timer function, such as:

WIFI remote control switch

WIFI Current and voltage collection

RS485 Master-Slave Device(PLC MCU),

4x 0/4-20MA Current Collection,

4x 0-5V/10V Voltage Collection,

Motor forward and reverse,

Timing on,

Timing off,

Power-up delay,

Trigger delay,

Infinite loop delay,

A finite number of cyclic delays,

Power sequencer,

And so on.

This is an expansion board based on 38PIN ESP32. We only provide three vscode/Arduino codes for testing the hardware. More codes and functions need to be developed by yourself.

If you need more functionality, write your own code. We do not provide additional code and technical support

Note: ES32A08 can not work independently, must be under the control of the 38PIN ESP32 board to work, If you do not have a 38PIN ESP32 board, purchase it separately or purchase a kit with 38PIN ESP32

ES32A08/ES33B08 Expansion Board Port	ESP32 Core Board Pin
V1-V4(0-10V AI)	I032/I033/I025/I026
I1-I4(0-20MA AI)	I036/I039/I034/I035
IN1-IN8(NPN DI)	74HC165 I05/I017/I016
CH1-CH8(Relay DO)	74HC595 I027/I014/I013/I04
Digital Tube Display	74HC595 I027/I014/I013/I04
4x Buttons	I018/I019/I021/I023
RS485 Port	I01/I03/I022
PWR (LED)	I015

