

10 I/Os Modules - CPU ESP32

Product Overview

11/30/2022

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

DFRobot 10 I/Os Modules - CPU ESP32 is based on the ESP32 devkit and provides a solution to industrial monitoring and control applications. These modules are easy to install and support RS485, Ethernet, and optoisolated input/output. The 10 I/Os modules - CPU ESP32 features $12V_{DC}$ to $24V_{DC}$ power input range, 30W rated power, 2MB PSRAM, and 4MB SRAM. These modules are used to control and automate machines and control AC and DC motors.



Features

- With 10 I/O interfaces
- Standardized connectors
- Supports RS485

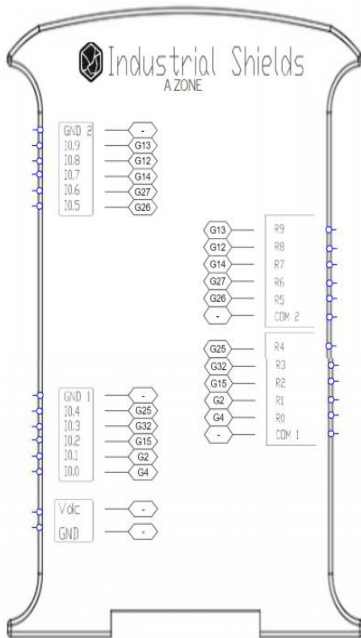
Specifications

- ESP32 devkit MCU
- $12V_{DC}$ to $24V_{DC}$ power input range
- $24V_{DC}$ input-rated voltage
- 30W rated power
- 1.5A maximum current
- Clock speed:
 - External 240MHz
 - Internal 8MHz
- 4MB flash
- 4MBSRAM
- 2MB PSRAM
- Communication:
 - USB-RS485-ETH-WiFi-BLE
- $11.4V_{DC}$ to $25.4V_{DC}$ operating voltage range
- $30V_{AC}$ maximum power consumption
- $5V_{DC}$ to $24V_{DC}$ digital isolated relay output
- $0^{\circ}C$ to $60^{\circ}C$ operating temperature range
- Ethernet Port
- TCP IP
- Modbus TCP
- Modbus RTU

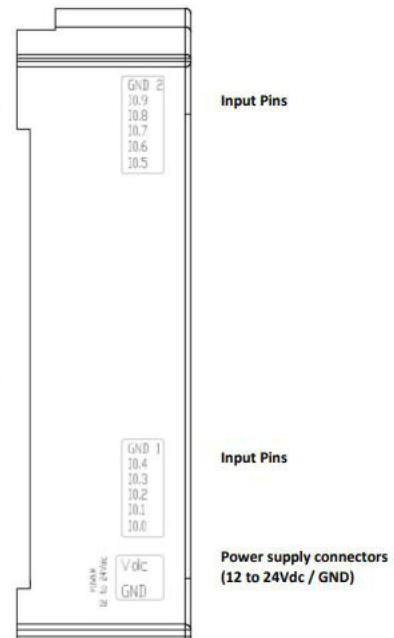
Applications

- Control and automation of machines
- Control of AC and DC motors

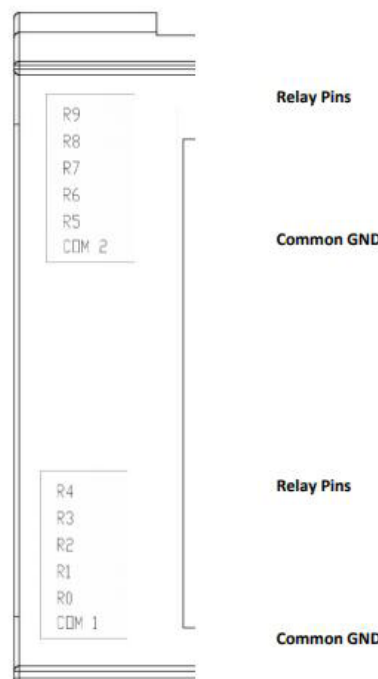
Overview



10 I/Os Connector	ESP32 Pin	Function
GND 2	-	Ground
10.9	G13	Digital Input
10.8	G12	Digital Input
10.7	G14	Digital Input
10.6	G27	Digital Input
10.5	G26	Digital Input
GND 1	-	Ground
10.4	G25	Digital Input
10.3	G32	Digital Input
10.2	G15	Digital Input
10.1	G2	Digital Input
10.0	G4	Digital Input



10 I/Os Connector	ESP32 Pin	Function
R9	G13	Relay Output
R8	G12	Relay Output
R7	G14	Relay Output
R6	G27	Relay Output
R5	G26	Relay Output
COM2	-	Common Ground
R4	G25	Relay Output
R3	G32	Relay Output
R2	G15	Relay Output
R1	G2	Relay Output
R0	G4	Relay Output
COM1	-	Common Ground



Mouser Part Numbers

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To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-10-i-os-modules/>