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ESP32 - 4 Relay controller board for Wi-Fi Bluetooth TASMOTA Smart Home system, Home Assistant. ESP32R4.

★★★★★ 4.7 53 Reviews 345 orders

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Color: V3con16M PSRM ANT AC



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US \$2.93



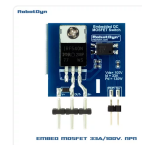
US \$7.83



US \$2.15



US \$6.85



US \$2.27



US \$1

DESCRIPTION

CUSTOMER REVIEWS (53)

SPECIFICATIONS

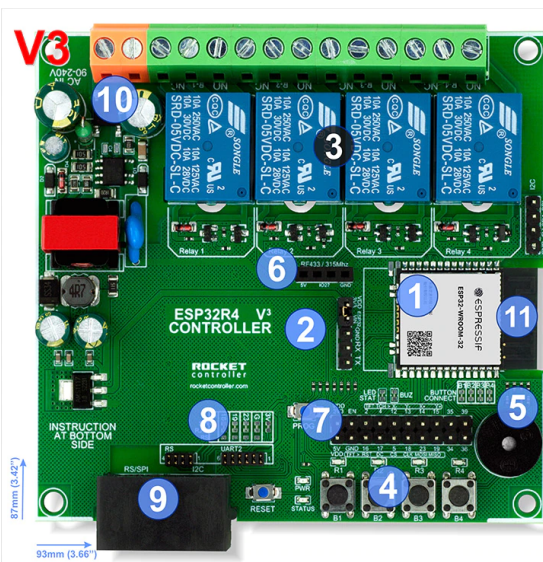


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ESP32R4
smart control
16MB flash + 8MB PSRAM
AC power IN 90-240V
External antenna

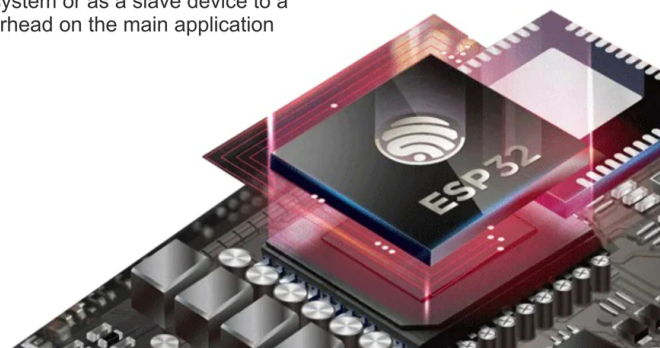
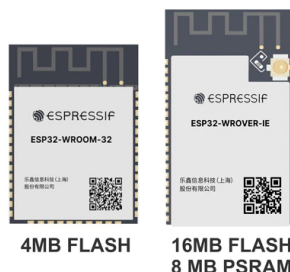


ESP32R4 V3 CONTROLLER

ESP32 MCU, 2.4GHz Wi-Fi & Bluetooth LE 4.2

- Flash memory 4MB and extend to 16MB + 8MB PSRAM
- UART programming header with PROG and RESET button
- 4 Contact Relays 10A 250VAC/30VDC with LED indicator
- 4 push Buttons
- Sound Buzzer
- Socket for RF433/315 receiver module
- Header for connecting LCD TFT touch display
- Socket for embedded communication modules
- RJ-12 socket for expansion modules
- AC 90~240V or DC 7~36V power IN for variation
- Imbedded antenna or external antenna 8dBi

Powerful with ESP32 microcontroller, 2.4 GHz Wi-Fi and Bluetooth LE 4.2, ESP32R4 can perform as a complete standalone system or as a slave device to a main controller, reducing communication stack overhead on the main application processor.



Top Selling



US \$13.71

★ 5.0

25 Sold



JS \$7.83

★ 4.7

95 Sold



US \$2.15

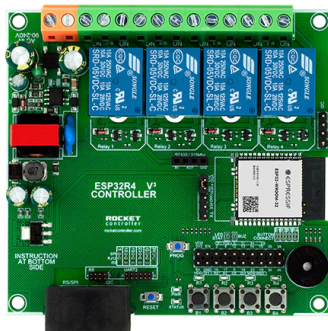
★ 4.9

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CASE VARIATION

BOARD

93mm(3.66")x87mm(3.42")



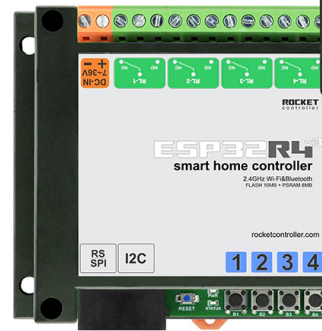
PLC ENCLOSURE

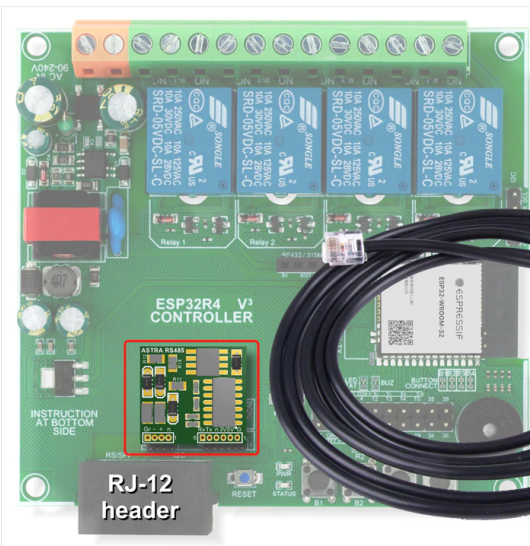
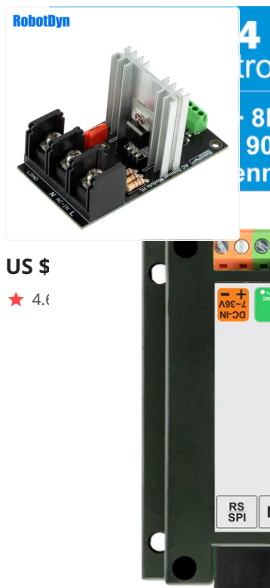
115mm(4.53")x90mm(3.54")



PLC ENCLOSURE with EXTERNAL ANTENNA 8dBi

115mm(4.53")x90mm(3.54")





Embedded communication modu

- RS-232
- RS-485/Modbus R
- CAN-Bus
- KNX
- Z-Wave
- LoraWAN
- GSM/LTE
- NRF24
- USB
- RF433/315
- RFID & keypad

* Additional modules are not included with the product. Order in ca



Upgrade your project with INDUSTRIA ASTRA expansion Input/Output modu

More Outputs:

- Contact Relays
- Solid-state Relays
- MOSFET DC switches

More Inputs:

- AC isolated inputs for AC voltage 40~2
- DC isolated inputs for DC voltage 7~10

* Connection with RJ-12 cables

ESP32R4

smart control

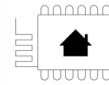
16MB flash + 8M
AC power IN 90
External antenn



FIRMWARE AND INTEGRATIONS



TASMOTA – Open source firmware.
Total local control of equipment and simple interface. TASMOTA device firmware preinstalled and configured to ESP32R4 controller. Easy to configure for any custom projects. Easy to update and upgrade. Multilanguage interface. Control using MQTT, Web UI, HTTP or serial. Automate using timers, rules or scripts. Integration with home automation solutions. Incredibly expandable and flexible.



Home Assistant

ESPHome and Home Assistant is open source home automation that puts local control and privacy first. Powered by a worldwide community of tinkerers and DIY enthusiasts. Perfect to run on a Raspberry Pi or a local server.



ESP RAINMAKER®

ESP RainMaker® is a complete system for building IoT products with a minimal amount of code, empowering your team to develop and deploy secure, customized IoT solutions. It covers all Espressif chips and modules, device firmware, voice-assistant integrations, phone apps and cloud backend.



Node-RED

Node-RED is a flow-based development tool for visual programming developed originally by IBM for wiring together hardware devices, APIs and online services as part of the Internet of Things. Node-RED provides a web browser-based flow editor, which can be used to create JavaScript functions. Elements of applications can be saved or shared for re-use. The runtime is built on

* ESP32R4 controller factory flashed with TASMOTA firmware

FRAMEWORKS



Open-source electronic prototyping platform enabling users to create interactive electronic objects.



ESP-IDF is Espressif's official IoT Development Framework for the ESP32. It provides a self-sufficient SDK for any generic application development on these platforms, using programming languages such as C and C++. ESP-IDF currently powers millions of devices in the field, and enables building a variety of network-connected products, ranging from simple light bulbs and toys to big appliances and industrial devices.



MicroPython is a full Python compiler and runtime that runs on the bare-metal. You get an interactive prompt (the REPL) to execute commands immediately, along with the ability to run and import scripts from the built-in filesystem. The REPL has history, tab completion, auto-indent and paste mode for great user experience.

ESP32R4v2 controller board easily integrates with many home automation solutions reporting status and sensors and allowing complete control.

ESP32R4

smart control

16MB flash + 8M
AC power IN 90
External antenn



Characteristics

Dimension

PCB	93x87mm
Enclosure	115x90x45mm

Connections

Button 1	GPIO34
Button 2	GPIO35
Button 3	GPIO36
Button 4	GPIO39
Relay 1	GPIO25
Relay 2	GPIO26
Relay 3	GPIO33
Relay 4	GPIO32

Header UART

3.3V	Power IN
ESP VIN	ESP32 power IN (3.3V)
GND	GND
RXD	GPIO3
TXD	GPIO1

Header IO

3.3V	DC IN 3.3V
5V	DC IN 5.0V
EN	EN (button RST)
GND	GND
IO2	GPIO2
IO4	GPIO4
IO5	GPIO5 VSPI CS0
IO12	GPIO12 HSPI MISO
IO13	GPIO13 HSPI MOSI
IO14	GPIO14 HSPI CLK

ESP32R4

smart control

16MB flash + 8M
AC power IN 90
External antenna 8DBi 2.4GHz

IO15

GPIO15 HSPI CS0

IO16

GPIO16 UART2 RXD

IO17

GPIO17 UART2 TXD



ESP32R4 V3 smart controller

16MB flash + 8MB PSRAM
AC power IN 90~240 VAC
External antenna 8DBi 2.4GHz



ESP32R4 V3
smart controller

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16MB flash + 8MB PSRAM
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ESP32R4 V3 smart controller

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16MB flash + 8MB PSRAM
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