

Schematic	Schematic_v2.4		Update Date	2026-01-07	
Page	Relay Circuit		Create Date	2026-01-04	
Drawn	EasyEDA			Part Number	JLCPCB-002
Reviewed	EasyEDA	ESP32 ROR Controller (v3)			
		VER	SIZE	PAGE	2 OF 4
		V0.2	A4	EasyEDA.com	

A

A

B

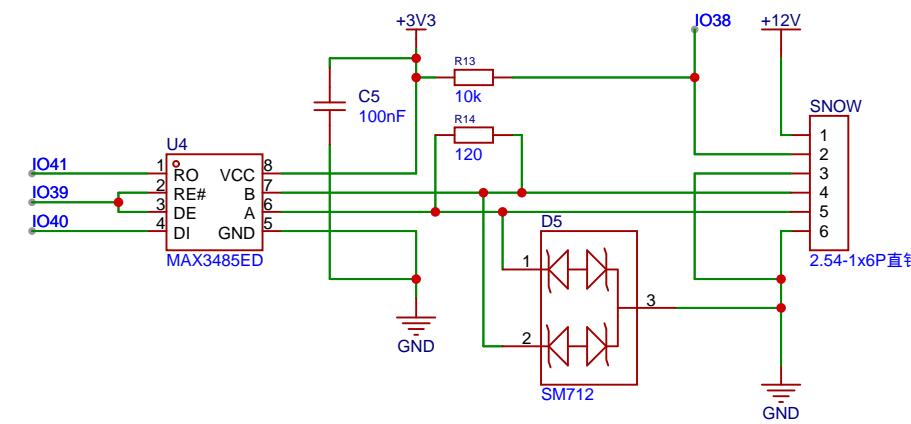
B

C

C

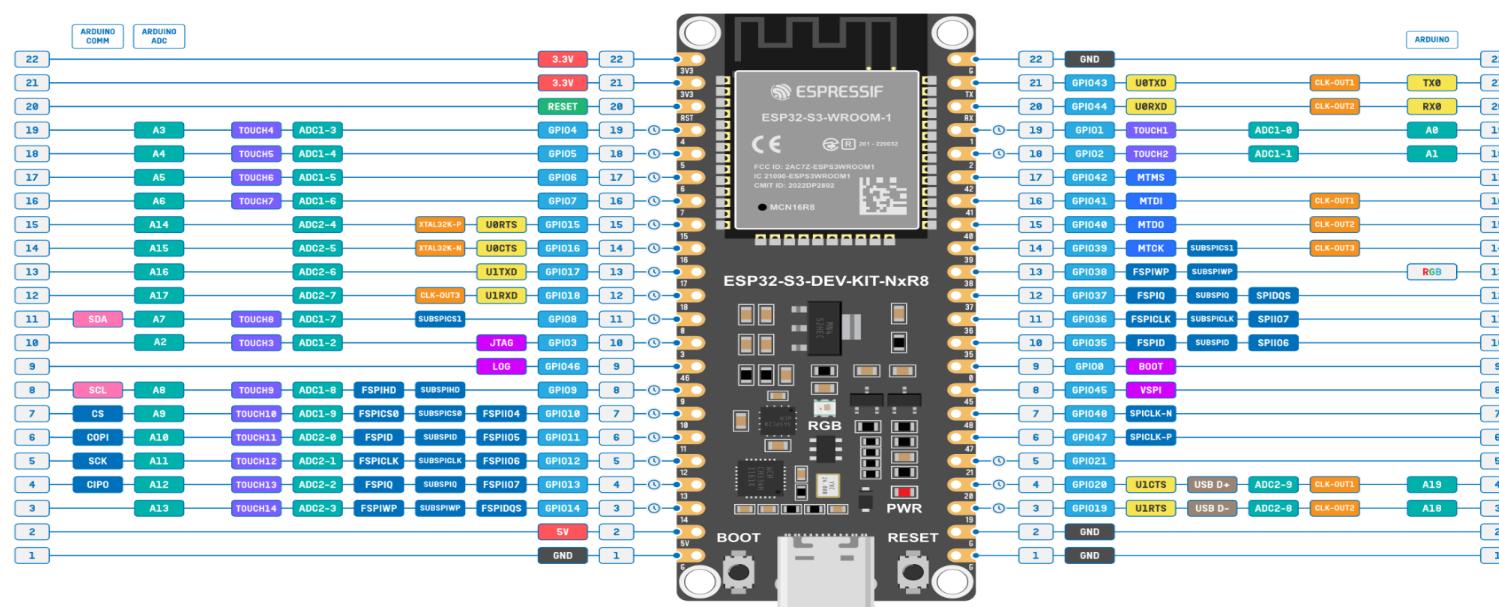
D

D



Schematic	Schematic_v2.4		Update Date	2026-01-04
			Create Date	2026-01-04
Page	Rain / Snow Sensor		Part Number	JLCPCB-002
Drawn	EasyEDA			
Reviewed	EasyEDA		ESP32 ROR Controller (v3)	
			VER	SIZE
			V0.2	A4
	EasyEDA.com			

ESP32-S3-DEV-KIT-NxR8 / PINOUT



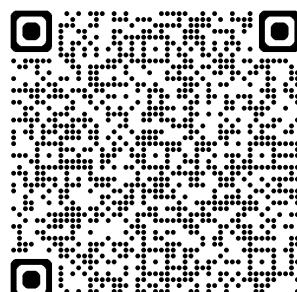
PHYSICAL PIN	POSITIVE SUPPLY	CLOCK IN/OUT	SPI
CONTROL	GROUND SUPPLY	TOUCH INPUTS	UART
GPIO	ADC INPUTS	I2C	USB
JTAG	RTC IO	BOOTSTRAP	RTC POWER DOMAIN

- **GPIOs 22–25** are not available from the chip.
- **TX0 and RX0** can be accessed as **Serial0** in Arduino.
- **USB-CDC** can be accessed as **Serial** in Arduino.
- Both **Serial** and **Serial1** can be used for programming.
- All GPIO pins support PWM and interrupts.
- Built-in RGB LED is connected to **PW038**.
- Arduino pin references are as per **ESP32-S3_DevKitC-1** definition.
- All touch input pins can be used as **TI-TM** in Arduino.
- Most peripheral functions can be assigned to any GPIO pins, thanks to the I/O MUX.



Rev. 0.1, 21-06-2025

<https://www.circuitstate.com/pinouts/waveshare-esp32-s3-dev-kit-nxr8-wi-fi-development-board-pinout-diagram-arduino-reference/#IC>



Schematic	Schematic_v2.4		Update Date	2026-01-04
			Create Date	2026-01-04
Page	Board Reference		Part Number	JLCPCB-003
Drawn	Corey Smart	ESP32 ROR Controller (v3)		
Reviewed	Gemini			
		VER	SIZE	PAGE 4 OF
 EasyEDA		v0.3	A4	