

# Arduino, I/O Pins

# ESP32-S3, I/O Pins

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Schematic Pin Name	Ardiono Pin Name	Software Name	Software Pin#	Physical Pin #	KeepOut	ESP32-S3 Name	Pins	Name	KeepOut or Spare	Physical Pin #	Software Pin#	Software Name	Ardiono Pin Name	Schematic Pin Name
	3V3			17		3.3	1	44	Gnd					
	3V3			17		3.3	2	43	GPIO43 U0TXD					
	RST			3		RST	3	42	GPIO44 U0RXD					
Xmtr1_Key_In	PD2	Button1_In	2	5		GPIO4	4	41	GPIO1	21	16	Relay3_Out	PC2	Relay3
Xmtr2_Key_In	PD3	Button2_In	3	6		GPIO5	5	40	GPIO2	22	17	Relay4_Out	PC3	Relay4
Xmtr3_Key_In	PD4	Button3_In	4	7		GPIO6	6	39	GPIO42 MTMS					
Xmtr4_Key_In	PD5	Button4_In	5	8		GPIO7	7	38	GPIO41 MTDI					
Relay1	PC0	Relay1_Out	14	19	U0RTS	GPIO15	8	37	GPIO40 MTDO					
Relay2	PC1	Relay2_Out	15	20	U0CTS	GPIO16	9	36	GPIO39 MTCK					
					U1TDX	GPIO17	10	35	GPIO38					
					U1RXD	GPIO18	11	34	GPIO37 SPIDQS					
Aux1_On	PD6	Aux1_On	6	9		GPIO8	12	33	GPIO36 SPII07					
Aux2_On	PD7	Aux2_On	7	10	JTAG	GPIO3	13	32	GPIO35 SPII06					
Aux1_Off	PB0	Aux1_Off	8	11	LOG	GPIO46	14	31	GPIO0 BOOT					
Aux2_Off	PB1	Aux2_Off	9	12		GPIO9	15	30	GPIO45 VSPI					
(All_Grounded)	PB2	Button5	10	13		GPIO10	16	29	GPIO48 SPICLK_N					
KeyOut1 Amplifier Keying	PB4	Amp_Key_Out	12	15		GPIO11	17	28	GPIO47 SPICLK_P					
Key-Out2 (Flex remote)	PB5	Aut2On_Out	13	16		GPIO12	18	27	GPIO21 Spare					
Aux_Relay1	PC4	Aux1_Out	18	23		GPIO13	19	26	GPIO20 USB_D+					
Aux_Relay2	PC5	AUX2_Out	19	24		GPIO14	20	25	GPIO19 USB_D-					
				27		5V0	21	24	Gnd					
				4		Gnd	22	23	Gnd 14					