



J5-1

Header Pin #	ESP Pin #	Arduino Port #	Designation	Description
1	-	A0	ADC_EX	ESP External ADC input up to 5Vdc
2	2	A0	ADC	ESP ADC input upto 1.1Vdc

J5-2

Header Pin #	ESP Pin #	Arduino Port #	Designation	Description
1	-	-	GND	Ground reference
2	-	-	VCC_5V	5V DC Input/output

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Header Pin #	ESP Pin #	Arduino Port #	Designation	Description
1	20	D1	GPIO5	GPIO5 of ESP
2	19	D2	GPIO4	GPIO4 of ESP
3	18	D3	GPIO0	GPIO0 of ESP
4	17	D4	GPIO2	GPIO2 of ESP
5	-	-	VCC_3V3	3.3V DC Input/output
6	-	-	GND	Ground reference
7	5	D5	GPIO14	GPIO14 of ESP
8	6	D6	GPIO12	GPIO12 of ESP
9	7	D7	GPIO13	GPIO13 of ESP

P2

Header Pin #	Designator	Description
1	VCC_5V	5VDC
2	VCC_MCU	MCU votage selection either 5V/3.3V
3	VCC_3V3	3.3VDC

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Header Pin #	MCU Pin #	Arduino Port #	Designator	Header Pin #	Description
1	9	5	MCU_PD5	9	RELAY-1
2	10	6	MCU_PD6	10	RELAY-2
3	12	8	MCU_PB0	11	RELAY-3
4	13	9	MCU_PB1	12	RELAY-4
5	14	10	MCU_PB2	13	RELAY-5
6	32	2	MCU_PD2	14	RELAY-6
7	1	3	MCU_PD3	15	RELAY-7
8	2	4	MCU_PD4	16	RELAY-8

P5

Header Pin #	Designator	Description	Header Pin #	Designator	Description
1	RXDA	UART_Rx_MCU	7	TXD0	Programmer UART_Tx
2	TDXE	UART_Tx_ESP	8	RXD0	Programmer UART_Rx
3	RXDE	UART_Rx_ESP	9	TXD0	Programmer UART_Tx
4	TXDA	UART_Tx_MCU	10	RXD0	Programmer UART_Rx
5	DTR_E	UART_DTR_ESP	11	DTR	Programmer UART_DTR
6	RESET	MCU Reset	12	DTR	Programmer UART_DTR

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Header Pin #	MCU Pin #	Arduino Port #	Designation	Description
1	11	7	MCU_PD7	Can be used for virtual switch
2	15	11	MCU_PB3	Can be used for virtual switch
3	16	12	MCU_PB4	Can be used for virtual switch
4	17	13	MCU_PB5	Can be used for virtual switch
5	23	A0	MCU_PC0	Can be used for virtual switch
6	24	A1	MCU_PC1	Can be used for virtual switch
7	25	A2	MCU_PC2	Can be used for virtual switch
8	26	A3	MCU_PC3	Can be used for virtual switch
9	27	A4	GND	Ground reference

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Header Pin #	MCU Pin #	Arduino Port #	Designator	Header Pin #	MCU Pin #	Arduino Port #	Designator
1	16	12	MCU_MISO	2	-	-	MCU_VCC
3	17	13	MCU_SCK	4	15	11	MCU_MOSI
5	29	-	MCU_RESET	6	-	-	MCU_GND