

Board Rev 1.20, Feature Connector

Pin	Function	Device	GPIO	/sys/class/gpio/gpio#
1	VCC3.3			
2	VCC5			
3	COL0	Keypad	GPIO3_IO00	64
4	SPI_B_CLK / COL1	SPI / Keypad	GPIO4_IO21	117
5	COL2	Keypad	GPIO3_IO01	65
6	SPI_B_CS / COL3	SPI / Keypad	GPIO4_IO24	120
7	COL4	Keypad	GPIO3_IO02	66
8	SPI_B_MOSI / COL5 (1) I2C_D_SCL (1)	SPI / Keypad I2C	GPIO4_IO22 GPIO1_IO07	118 7
9	COL6	Keypad	GPIO3_IO03	67
10	SPI_B_MISO / COL7 (1) I2C_D_SDA (1)	SPI / Keypad I2C	GPIO4_IO23 GPIO1_IO08	119 8
11	GND			
12	SPI_A_CLK	SPI	GPIO2_IO23	55
13	UART_B_TXD	UART	GPIO3_IO26	90
14	SPI_A_CS	SPI	GPIO2_IO26	58
15	UART_B_RXD	UART	GPIO3_IO27	91
16	SPI_A_MOSI	SPI	GPIO2_IO24	56
17	SPI_A_MISO	SPI	GPIO2_IO25	57
18	UART_D_TXD / ROW0	UART / Keypad	GPIO5_IO28	156
19	UART_B_RTS / ROW1	UART / Keypad	GPIO3_IO28	92
20	UART_D_RXD / ROW2	UART / Keypad	GPIO5_IO29	157
21	UART_B_CTS / ROW3	UART / Keypad	GPIO3_IO29	93
22	UART_D_RTS / ROW4	UART / Keypad	GPIO3_IO19	83
23	UART_E_TXD / ROW5	UART / Keypad	GPIO3_IO24	88
24	UART_D_CTS / ROW6	UART / Keypad	GPIO3_IO20	84
25	UART_E_RXD / ROW7	UART / Keypad	GPIO3_IO25	89
26	GPIO_A	GPIO	GPIO3_IO23	87
27	GND			
28	PWM_A	PWM	GPIO2_IO10	42
29	ADC_IN_A	ADC		
30	PWM_B	PWM	GPIO4_IO29	125
31	ADC_IN_B	ADC		
32	PWM_C	PWM	GPIO4_IO30	126

Pin	Function	Device	GPIO	/sys/class/gpio/gpio#
33	ADC_IN_C	ADC		
34	VCFL_ON	Backlight	GPIO2_IO08	40
35	ADC_IN_D	ADC		
36	UART_C_RXD	UART	GPIO4_IO09	105
37	GND			
38	UART_C_TXD	UART	GPIO4_IO08	104
39	VCC3.3			
40	VCC5			
41	MICIN	Audio		
42	GND	Audio		
43	n.c.	Audio		
44	LINEIN_R	Audio		
45	LINEOUT_R	Audio		
46	GND	Audio		
47	GND	Audio		
48	LINEIN_L	Audio		
49	LINEOUT_L	Audio		
50	GND	Audio		
51	RESET			
52	VCC3.3			
53	PWR_BTN			
54	n.c.	UART		
55	UART_A_RXD	UART	GPIO4_IO07	103
56	UART_A_RTS	UART	GPIO6_IO03	163
57	UART_A_TXD	UART	GPIO4_IO06	102
58	UART_A_CTS	UART	GPIO6_IO02	162
59	n.c.	UART		
60	n.c.	UART		
61	GND	UART		
62	VCC5	UART		
63	CANRX/CANL	CAN	GPIO4_IO15 / -	109 / -
64	CANTX/CANH	CAN	GPIO4_IO14 / -	110 / -
65	BOOTSEL			

armStoneA9r2 GPIO Reference Card

V1.2

20.03.2020

Pin	Function	Device	GPIO	/sys/class/gpio/gpio#
66	VCC3.3			

(1) Signals depends on board configuration, either SPI_B or I2C_D. Default configuration is SPI_B.

Connector for Capacitive Touch Module

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1	VCC3.3			
2	I2C_A_SDA	I2C	GPIO4_IO13	109
3	I2C_A_SCL	I2C	GPIO4_IO12	108
4	I2C_A_RST	I2C	GPIO1_IO29	29
5	I2C_A_IRQ	I2C	GPIO1_IO30	30
6	GND			

Board Rev 1.00+1.1x, Feature Connector

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5	COL2	Keypad	GPIO3_IO01	65
6	SPI_B_CS / COL3	SPI / Keypad	GPIO4_IO24	120
7	COL4	Keypad	GPIO3_IO02	66
8	SPI_B_MOSI / COL5	SPI / Keypad	GPIO4_IO22	118
9	COL6	Keypad	GPIO3_IO03	67
10	SPI_B_MISO / COL7	SPI / Keypad	GPIO4_IO23	119
11	GND			
12	SPI_A_CLK	SPI	GPIO2_IO23	55
13	UART_B_TXD	UART	GPIO3_IO26	90
14	SPI_A_CS	SPI	GPIO2_IO26	58
15	UART_B_RXD	UART	GPIO3_IO27	91
16	SPI_A_MOSI	SPI	GPIO2_IO24	56
17	SPI_A_MISO	SPI	GPIO2_IO25	57
18	UART_D_TXD / ROW0	UART / Keypad	GPIO5_IO28	156
19	UART_B_RTS / ROW1	UART / Keypad	GPIO3_IO28	92
20	UART_D_RXD / ROW2	UART / Keypad	GPIO5_IO29	157
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24	UART_D_CTS / ROW6	UART / Keypad	GPIO3_IO20	84
25	UART_E_RXD / ROW7	UART / Keypad	GPIO3_IO25	89
26	GPIO_A	GPIO	GPIO3_IO23	87
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37	GND			
38	UART_C_TXD	UART	GPIO4_IO08	104
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45	LINEOUT_R	Audio		
46	GND	Audio		
47	GND	Audio		
48	LINEIN_L	Audio		
49	LINEOUT_L	Audio		
50	GND	Audio		
51	RESET			
52	VCC3.3			
53	PWR_BTN			
54	n.c.	UART		
55	UART_A_RXD	UART	GPIO4_IO07	103
56	UART_A_RTS	UART	GPIO6_IO03	163
57	UART_A_TXD	UART	GPIO4_IO06	102
58	UART_A_CTS	UART	GPIO6_IO02	162
59	n.c.	UART		
60	n.c.	UART		
61	GND	UART		
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66	VCC3.3			

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