

ArmStoneA9 GPIO Reference Card

V1.3

19.03.2020

Board Rev 1.00+1.1x, Feature Connector

Pin	Function	Device	GPIO	/sys/class/gpio/gpio#
1	VCC3.3			
2	VCC5			
3	COL0	Keypad	GPIO5_IO19	147
4	COL1	Keypad	GPIO5_IO18	146
5	COL2	Keypad	GPIO5_IO21	149
6	COL3	Keypad	GPIO5_IO20	148
7	COL4	Keypad	GPIO5_IO22	150
8	COL5	Keypad	GPIO5_IO23	151
9	COL6	Keypad	GPIO5_IO24	152
10	COL7	Keypad	GPIO5_IO25	153
11	GND			
12	SPI_CLK	SPI or INT	GPIO2_IO23	55
13	TXD1	UART	GPIO5_IO28	156
14	/SPI_CS	SPI or INT	GPIO2_IO26	58
15	RXD1	UART	GPIO5_IO29	157
16	SPI_MOSI	SPI	GPIO2_IO24	56
17	SPI_MISO	SPI	GPIO2_IO25	57
18	ROW0	Keypad	GPIO5_IO27	155
19	ROW1	Keypad	GPIO5_IO30	158
20	ROW2	Keypad	GPIO5_IO31	159
21	ROW3	Keypad	GPIO6_IO00	160
22	ROW4	Keypad	GPIO6_IO01	161
23	ROW5	Keypad	GPIO6_IO02	162
24	ROW6	Keypad	GPIO6_IO03	163
25	ROW7	Keypad	GPIO6_IO04	164
26	GPIO_A	GPIO	GPIO5_IO26	154
27	GND			
28	PWMOUT0	PWM	GPIO1_IO01	1
29	ADC_IN0	ADC		
30	PWMOUT1	PWM	GPIO2_IO10	42
31	ADC_IN1	ADC		
32	PWMOUT2	PWM	GPIO1_IO21	21
33	ADC_IN2	ADC		
34	VCFL_ON	Backlight	GPIO2_IO08	40

Pin	Function	Device	GPIO	/sys/class/gpio/gpio#
35	ADC_IN3	ADC		
36	RXD2	UART	GPIO3_IO25	89
37	GND			
38	TXD2	UART	GPIO3_IO24	88
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	DCD(n.c.)/PWR_BTN	UART/Power*		
54	DSR(n.c.)	UART		
55	RXD0	UART	GPIO3_IO27	91
56	RTS0	UART	GPIO3_IO28	92
57	TXD0	UART	GPIO3_IO26	90
58	CTS0	UART	GPIO3_IO29	93
59	DTR(n.c.)	UART		
60	RI(n.c.)	UART		
61	GND	UART		
62	VCC5			
63	CANRX/CANL	CAN		
64	CANTX/CANH	CAN		
65	BOOTSEL			
66	VCC3.3			

* Power Button is hardware option

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Connector for Capacitive Touch Module

Pin	Function	Device	GPIO	/sys/class/gpio/gpio#
1	VCC3.3			
2	I2CDAT	I2C	GPIO7_11	203
3	I2CCLK	I2C	GPIO1_03	3
4	I2C_RST		GPIO1_29	29
5	I2C_IRQ		GPIO1_30	30
6	GND			

Connector for Backlight Control

Pin	Function	Device	GPIO	/sys/class/gpio/gpio#
1	DIGON	Backlight	GPIO2_IO11	43
2	VCFL_ON	Backlight	GPIO2_IO08	40
3	LVDS_PWM	Backlight	GPIO2_IO09	41
4	GND			