

Board Rev 1.00, Feature Connector

Pin	Function	Device	GPIO	/sys/class/gpio/gpio#
1	VCC3.3			
2	VCC5			
3	COL0	Keypad	GPIO3_IO01	65
4	SPI_B_CLK / COL1	SPI2 / Keypad	GPIO5_IO10	134
5	COL2	Keypad	GPIO3_IO00	64
6	SPI_B_CS / COL3	SPI2 / Keypad	GPIO5_IO13	141
7	COL4	Keypad	GPIO3_IO14	78
8	SPI_B_MOSI ⁽¹⁾ / I2C_A_SCL ⁽²⁾ / COL5	SPI2 ⁽¹⁾ / I2C4 ⁽²⁾ / Keypad	GPIO5_IO11 ⁽¹⁾ / GPIO5_IO20 ⁽²⁾	139 ⁽¹⁾ / 148 ⁽²⁾
9	COL6	Keypad	GPIO3_IO04	68
10	SPI_B_MISO ⁽¹⁾ / I2C_A_SDA ⁽²⁾ / COL7	SPI2 ⁽¹⁾ / I2C4 ⁽²⁾ / Keypad	GPIO5_IO12 ⁽¹⁾ / GPIO5_IO21 ⁽²⁾	140 ⁽¹⁾ / 149 ⁽²⁾
11	GND			
12	SPI_A_CLK	SPI3	GPIO5_IO22	150
13	UART_B_TXD	UART3	GPIO5_IO06	134
14	SPI_A_CS0	SPI3	GPIO5_IO25	153
15	UART_B_RXD	UART3	GPIO5_IO07	135
16	SPI_A_MOSI	SPI3	GPIO5_IO23	151
17	SPI_A_MISO	SPI3	GPIO5_IO24	152
18	UART_D_TXD / ROW0	UART4 / Keypad	GPIO3_IO07	71
19	I2C_C_SCL / UART_B_RTS / ROW1	I2C2 / UART3 / Keypad	GPIO5_IO18	146
20	UART_D_RXD / ROW2	UART4 / Keypad	GPIO3_IO06	70
21	I2C_C_SDA / UART_B_CTS / ROW3	I2C2 / UART3 / Keypad	GPIO5_IO09	147
22	UART_D_RTS / ROW4	UART4 / Keypad	GPIO3_IO08	72
23	UART_C_TXD / ROW5	UART1 / Keypad	GPIO4_IO21	117
24	UART_D_CTS / ROW6	UART4 / Keypad	GPIO3_IO09	73
25	UART_C_RXD / ROW7	UART1 / Keypad	GPIO4_IO22	118
26	GPIO_A	GPIO	GPIO5_IO01	129
27	GND			
28	PWM_A	PWM2	GPIO1_IO13	13
29	ADC_IN_A / I2C_D_SDA ⁽²⁾	ADC / I2C1		
30	PWM_B	PWM1	GPIO5_IO05	133
31	ADC_IN_B / I2C_D_SCL ⁽²⁾	ADC / I2C1		
32	PWM_C	PWM4	GPIO5_IO02	130
33	ADC_IN_C /	ADC / GPIO	/ GPIO5_IO28	156

Pin	Function	Device	GPIO	/sys/class/gpio/gpio#
	I2C_D_IRQ ⁽²⁾			
34	BL_ON	Backlight (GPIO)	GPIO4_IO28	124
35	ADC_IN_D / I2C_D_RSTn ⁽²⁾	ADC / GPIO	/ GPIO5_IO29	159
36	UART_B/C/D_RXD	UART		
37	GND			
38	UART_B/C/D_TXD	UART		
39	VCC3.3			
40	VCC5			
41	MICIN / I2S ⁽²⁾	Audio / SAI2	/ GPIO4_IO26	132
42	GND	Audio		
43	n.c.	Audio		
44	LINEIN_R / I2S ⁽²⁾	Audio / SAI2	/ GPIO4_IO27	133
45	LINEOUT_R	Audio / SAI2	/ GPIO4_IO25	131
46	GND	Audio		
47	GND	Audio		
48	LINEIN_L / I2S ⁽²⁾	Audio / SAI2	/ GPIO4_IO24	130
49	LINEOUT_L / I2S ⁽²⁾	Audio / SAI2	/ GPIO4_IO23	129
50	GND	Audio		
51	RESET			
52	VCC3.3			
53	SPKR_LOUT_N	Audio		
54	SPKR_LOUT_P	Audio		
55	UART_A_RXD	UART		
56	UART_A_RTS	UART		
57	UART_A_TXD	UART		
58	UART_A_CTS	UART		
59	SPKR_ROUT_N	Audio		
60	SPKR_ROUT_P	Audio		
61	GND			
62	VCC5	UART		
63	CANL	CAN		
64	CANH	CAN		
65	BOOTSEL			
66	GND			

1. Main function if 0 Ohm resistor(s) equipped (s. hardware doc.)

2. Optional if 0 Ohm resistor(s) equipped (s. hardware doc.)

Connector for Capacitive Touch Module

Pin	Function	Device	GPIO	/sys/class/gpio/gpio#
1	VCC3.3			
2	I2C_B_SDA	I2C3	GPIO5_IO19	147
3	I2C_B_SCL	I2C3	GPIO5_IO18	146
4	TOUCH_RSTn (I2C_B_RST)	I2C	GPIO1_IO01	1
5	I2C_B_IRQ	I2C	GPIO1_IO07	7
6	GND			

Connector for Backlight Control

Pin	Function	Device	GPIO	/sys/class/gpio/gpio#
1	VLCD_ON	Backlight	GPIO5_IO16	144
2	BL_ON	Backlight	GPIO4_IO28	126
3	BL_PWM	Backlight	GPIO1_IO10	10
4	GND			