

PicoCoreMX7ULP GPIO Reference Card

V1.2

12.08.2019

Pin layout for Board Rev. 1.20

J2	Function	Device	GPIO	Mode	/sys/class/gpio/gpio#	PCoreULP_BB V1.00
1	GND					
2	GND					
3	JTAG_TRST					
4	SD1_D3 ⁽¹⁾	SD1	PTE4	IO	68	
5	JTAG_TDO					
6	SD1_D2 ⁽¹⁾	SD1	PTE5	IO	69	
7	JTAG_TCLK					
8	SD1_D1 ⁽¹⁾	SD1	PTE0	IO	64	
9	JTAG_TDI					
10	SD1_D0 ⁽¹⁾	SD1	PTE1	IO	65	
11	JTAG_TMS					
12	SD1_CLK ⁽¹⁾	SD1	PTE2	IO	66	
13	GND					
14	SD1_CMD ⁽¹⁾	SD1	PTE3	IO	67	
15	LPUART0_TX	LPUART0	PTA18	IO	M4: GPIOA_18	(J12_5)
16	WL_REG_ON	GPIO	PTE6	IO	70	J6_32
17	LPUART0_RX	LPUART0	PTA19	IO	M4: GPIOA_19	(J12_3)
18	BT_REG_ON	GPIO	PTE7	IO	71	J6_34
19	LPUART4_TX	LPUART4	PTC2	IO	2	(J11_5)
20	/LPI2C7_RST	GPIO	PTF1	IO	97	J4_4/(J5_3)
21	LPUART4_RX	LPUART4	PTC3	IO	3	(J11_3)
22	GND					
23	GND					
24	DSI_DATA0_P	MIPI-DSI				
25	/LPI2C7_IRQ	GPIO	PTF0	IO	96	J4_5/(J5_1)
26	DSI_DATA0_N	MIPI-DSI				
27	/MIPI_RESET	GPIO	PTC19	IO	19	
28	GND					
29	LED_PWM_EN	GPIO	PTF2	IO	98	J5_43
30	DSI_CLK_P	MIPI-DSI				
31	LPUART6_CTS	LPUART6	PTE8	IO	72	J6_2
32	DSI_CLK_N	MIPI-DSI				
33	LPUART6_RTS	LPUART6	PTE9	IO	73	J6_4
34	GND					
35	LPUART6_TX	LPUART6	PTE10	IO	74	J6_6
36	DSI_DATA1_P	MIPI-DSI				
37	LPUART6_RX	LPUART6	PTE11	IO	75	J6_8
38	DSI_DATA1_N	MIPI-DSI				
39	SD1_WP ⁽¹⁾	GPIO	PTE12	IO	76	
40	GND		-			
41	SD1_CD ⁽¹⁾	GPIO	PTE13	IO	77	
42	LPUART2_TX	LPUART2	PTA10	IO	M4: GPIOA_10	J7_26
43	GND					

J2	Function	Device	GPIO	Mode	/sys/class/gpio/gpio#	PCoreULP_BB V1.00
44	LPUART2_RX	LPUART2	PTA11	IO	M4: GPIOA_11	J7_28
45	LPUART5_TX	LPUART5	PTC6	IO	6	J6_10
46	LPUART2_RTS	LPUART2	PTA9	IO	M4: GPIOA_9	J7_24
47	LPUART5_RX	LPUART5	PTC7	IO	7	J6_12
48	LPUART2_CTS	LPUART2	PTA8	IO	M4: GPIOA_8	J7_22
49	LPI2C3_SCL	LPI2C3	PTB12	IO	M4: GPIOB_12	J6_15
50	GND					
51	LPI2C3_SDA	LPI2C3	PTB13	IO	M4: GPIOB_13	J6_17
52	PTB9	GPIO	PTB9	IO	M4: GPIOB_9	J6_9
53	GND					
54	LPUART7_TX	LPUART7	PTF14	IO	110	J7_19
55	PMC_3V3	V33				
56	LPUART7_RX	LPUART7	PTF15	IO	111	J7_21
57	LPI2C5_SCL	LPI2C5	PTC4	IO	4	(J3_11)
58	LPI2C7_SCL	LPI2C7	PTF12	IO	108	J4_3/J5_5
59	LPI2C5_SDA	LPI2C5	PTC5	IO	5	(J3_12)
60	LPI2C7_SDA	LPI2C7	PTF13	IO	109	J4_2/(J5_4)
61	GND					
62	GND					
63	LPI2C0_SCL	LPI2C0	PTA16	IO	M4: GPIOA_16	J7_4
64	/BOOTSEL					
65	LPI2C0_SDA	LPI2C0	PTA17	IO	M4: GPIOA_17	J7_6
66	AGND_AUD	AUDIO				
67	GND					
68	LOUT	AUDIO				
69	DAC0_OUT	DAC				
70	ROUT	AUDIO				
71	DAC1_OUT	DAC				
72	AGND_AUD	AUDIO				
73	GND					
74	LIN	AUDIO				
75	LHPOUT	AUDIO				
76	RIN	AUDIO				
77	RHPOUT	AUDIO				
78	AGND_AUD	AUDIO				
79	HP_VGND					
80	MIC	AUDIO				

(1) SD1 is not available if WLAN/Bluetooth is equipped

PicoCoreMX7ULP GPIO Reference Card

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Pin layout for Board Rev. 1.20

J3	Function	Device	GPIO	Mode	/sys/class/gpio/gpio#	PCoreULP_BB V1.00
1	GND					
2	VBAT_4V2					
3	GND					
4	VBAT_4V2					
5	GND					
6	VBAT_4V2					
7	ONOFF					
8	GND					
9	/RESET1					
10	/RESETIN					
11	/RESET0					
12	THM					
13	/A7_POW_EN	GPIO	PTA25	IO	M4: GPIOA_25	
14	PTA20	GPIO	PTA20	IO	M4: GPIOA_20	
15	M4_PER_EN	GPIO	PTA21	IO	M4: GPIOA_21	
16	VDD_5V0					
17	TAMPER					
18	VDD_5V0					
19	GND					
20	VDD_5V0					
21	GND					
22	VDD_5V0					
23	VDD_PTE					
24	GND					
25	PMC_3V3					
26	GND					
27	GND					
28	PTC9	GPIO	PTC9	IO	9	J6_14
29	PTA31	GPIO	PTA31	IO	M4: GPIOA_31	J7_8
30	PTC11	GPIO	PTC11	IO	11	J6_16
31	PTA23	GPIO	PTA23	IO	M4: GPIOA_23	J7_10
32	PTC12	GPIO	PTC12	IO	12	J6_18
33	PTA15	GPIO	PTA15	IO	M4: GPIOA_15	J7_12
34	PTC8	GPIO	PTC8	IO	8	J6_20
35	PTA14	GPIO	PTA14	IO	M4: GPIOA_14	J7_14
36	PTC14	GPIO	PTC14	IO	14	J6_22
37	PTA13	GPIO	PTA13	IO	M4: GPIOA_13	J7_16
38	PTC15	GPIO	PTC15	IO	15	J6_24
39	PTA12	GPIO	PTA12	IO	M4: GPIOA_12	J7_18
40	PTC16	GPIO	PTC16	IO	16	J6_26
41	PTA3	GPIO	PTA3	IO	M4: GPIOA_3	
42	PTC17	GPIO	PTC17	IO	17	J6_28
43	PTA1	GPIO	PTA1	IO	M4: GPIOA_1	(J12_4)

J3	Function	Device	GPIO	Mode	/sys/class/gpio/gpio#	PCoreULP_BB V1.00
44	PTC18	GPIO	PTC18	IO	18	
45	PTA0	GPIO	PTA0	IO	M4: GPIOA_0	(J12_6)
46	GND					
47	PTB1	GPIO	PTB1	IO	M4: GPIOB_1	J6_3
48	PTF11	GPIO	PTF11	IO	107	J7_1
49	PTB2	GPIO	PTB2	IO	M4: GPIOB_2	J6_5
50	PTF10	GPIO	PTF10	IO	106	J7_3
51	PTB3	GPIO	PTB3	IO	M4: GPIOB_3	J6_7
52	PTF9	GPIO	PTF9	IO	105	J7_5
53	PTB10	GPIO	PTB10	IO	M4: GPIOB_10	J6_11
54	PTF8	GPIO	PTF8	IO	104	J7_7
55	PTB11	GPIO	PTB11	IO	M4: GPIOB_11	J6_13
56	PTF7	GPIO	PTF7	IO	103	J7_9
57	PTB14	GPIO	PTB14	IO	M4: GPIOB_14	J6_19
58	PTF6	GPIO	PTF6	IO	102	J7_11
59	GND					
60	PTF5	GPIO	PTF5	IO	101	J7_13
61	LPSPi3_PCS0	GPIO	PTF19	IO	115	J7_23
62	PTF4	GPIO	PTF4	IO	100	J7_15
63	LPSPi3_SCK	GPIO	PTF18	IO	114	J7_25
64	PTF3	GPIO	PTF3	IO	99	J7_17
65	LPSPi3_SOUT	GPIO	PTF17	IO	113	J7_27
66	GND					
67	LPSPi3_SIN	GPIO	PTF16	IO	112	J7_29
68	HSIC_DATA					
69	GND					
70	HSIC_STROBE					
71	USB_VBUS_DETECT					
72	GND					
73	GND					
74	GND					
75	USB0_DM					
76	USB_OTG_PWR_EN	GPIO	PTE15	IO	79	(J13_1)
77	USB0_DP					
78	USB_OTG_ID	GPIO	PTC13	IO	13	J13_4
79	GND					
80	GND					

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Pin layout for Board Rev. 1.10

J2	Function	Device	GPIO	Mode	/sys/class/gpio/gpio#	PCoreULP_BB V1.00
1	GND					
2	GND					
3	JTAG_TRST					
4	SD1_D3 ⁽¹⁾	SD1	PTE4	IO	68	
5	JTAG_TDO					
6	SD1_D2 ⁽¹⁾	SD1	PTE5	IO	69	
7	JTAG_TCLK					
8	SD1_D1 ⁽¹⁾	SD1	PTE0	IO	64	
9	JTAG_TDI					
10	SD1_D0 ⁽¹⁾	SD1	PTE1	IO	65	
11	JTAG_TMS					
12	SD1_CLK ⁽¹⁾	SD1	PTE2	IO	66	
13	GND					
14	SD1_CMD ⁽¹⁾	SD1	PTE3	IO	67	
15	LPUART0_TX	LPUART0	PTA18	IO	M4: GPIOA_18	(J12_5)
16	WL_REG_ON	GPIO	PTE6	IO	70	J6_32
17	LPUART0_RX	LPUART0	PTA19	IO	M4: GPIOA_19	(J12_3)
18	BT_REG_ON	GPIO	PTE7	IO	71	J6_34
19	LPUART4_TX	LPUART4	PTC2	IO	2	(J11_5)
20	/LPI2C7_RST	GPIO	PTF1	IO	97	J4_4/(J5_3)
21	LPUART4_RX	LPUART4	PTC3	IO	3	(J11_3)
22	GND					
23	GND					
24	DSI_DATA0_P	MIPI-DSI				
25	/LPI2C7_IRQ	GPIO	PTF0	IO	96	J4_5/(J5_1)
26	DSI_DATA0_N	MIPI-DSI				
27	/MIPI_RESET	GPIO	PTC19	IO	19	
28	GND					
29	LED_PWM_EN	GPIO	PTF2	IO	98	J5_43
30	DSI_CLK_P	MIPI-DSI				
31	LPUART6_CTS ⁽²⁾	LPUART6	PTE8	IO	72	J6_2
32	DSI_CLK_N	MIPI-DSI				
33	LPUART6_RTS ⁽²⁾	LPUART6	PTE9	IO	73	J6_4
34	GND					
35	LPUART6_TX ⁽²⁾	LPUART6	PTE10	IO	74	J6_6
36	DSI_DATA1_P	MIPI-DSI				
37	LPUART6_RX ⁽²⁾	LPUART6	PTE11	IO	75	J6_8
38	DSI_DATA1_N	MIPI-DSI				
39	SD1_WP ⁽¹⁾	GPIO	PTE12	IO	76	
40	GND		-			
41	SD1_CD ⁽¹⁾	GPIO	PTE13	IO	77	
42	LPUART2_TX	LPUART2	PTA10	IO	M4: GPIOA_10	J7_26
43	GND					

J2	Function	Device	GPIO	Mode	/sys/class/gpio/gpio#	PCoreULP_BB V1.00
44	LPUART2_RX	LPUART2	PTA11	IO	M4: GPIOA_11	J7_28
45	LPUART5_TX	LPUART5	PTC6	IO	6	J6_10
46	LPUART2_RTS	LPUART2	PTA9	IO	M4: GPIOA_9	J7_24
47	LPUART5_RX	LPUART5	PTC7	IO	7	J6_12
48	LPUART2_CTS	LPUART2	PTA8	IO	M4: GPIOA_8	J7_22
49	LPI2C3_SCL	LPI2C3	PTB12	IO	M4: GPIOB_12	J6_15
50	GND					
51	LPI2C3_SDA	LPI2C3	PTB13	IO	M4: GPIOB_13	J6_17
52	PTB9	GPIO	PTB9	IO	M4: GPIOB_9	J6_9
53	GND					
54	LPUART7_TX	LPUART7	PTF14	IO	110	J7_19
55	PMC_3V3	V33				
56	LPUART7_RX	LPUART7	PTF15	IO	111	J7_21
57	LPI2C5_SCL	LPI2C5	PTC4	IO	4	(J3_11)
58	LPI2C7_SCL	LPI2C7	PTF12	IO	108	J4_3/J5_5
59	LPI2C5_SDA	LPI2C5	PTC5	IO	5	(J3_12)
60	LPI2C7_SDA	LPI2C7	PTF13	IO	109	J4_2/(J5_4)
61	GND					
62	GND					
63	LPI2C0_SCL	LPI2C0	PTA16	IO	M4: GPIOA_16	J7_4
64	/BOOTSEL					
65	LPI2C0_SDA	LPI2C0	PTA17	IO	M4: GPIOA_17	J7_6
66	AGND_AUD	AUDIO				
67	GND					
68	LOUT	AUDIO				
69	DAC0_OUT	DAC				
70	ROUT	AUDIO				
71	DAC1_OUT	DAC				
72	AGND_AUD	AUDIO				
73	GND					
74	LIN	AUDIO				
75	LHPOUT	AUDIO				
76	RIN	AUDIO				
77	RHPOUT	AUDIO				
78	AGND_AUD	AUDIO				
79	HP_VGND					
80	MIC	AUDIO				

(1) SD1 is not available if WLAN/Bluetooth is equipped

(2) LPUART6 is no available if WLAN/Bluetooth is equipped

PicoCoreMX7ULP GPIO Reference Card

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Pin layout for Board Rev. 1.10

J3	Function	Device	GPIO	Mode	/sys/class/gpio/gpio#	PCoreULP_BB V1.00
1	GND					
2	VBAT_4V2					
3	GND					
4	VBAT_4V2					
5	GND					
6	VBAT_4V2					
7	ONOFF					
8	GND					
9	/RESET1					
10	/RESETIN					
11	/RESET0					
12	THM					
13	/A7_POWER_EN	GPIO	PTA25	IO	M4: GPIOA_25	
14	PTA20	GPIO	PTA20	IO	M4: GPIOA_20	
15	M4_PER_EN	GPIO	PTA21	IO	M4: GPIOA_21	
16	VDD_5V0					
17	TAMPER					
18	VDD_5V0					
19	GND					
20	VDD_5V0					
21	GND					
22	VDD_5V0					
23	VDD_PTE					
24	GND					
25	PMC_3V3					
26	GND					
27	GND					
28	PTC9	GPIO	PTC9	IO	9	J6_14
29	PTA31	GPIO	PTA31	IO	M4: GPIOA_31	J7_8
30	PTC11	GPIO	PTC11	IO	11	J6_16
31	PTA23	GPIO	PTA23	IO	M4: GPIOA_23	J7_10
32	PTC12	GPIO	PTC12	IO	12	J6_18
33	PTA15	GPIO	PTA15	IO	M4: GPIOA_15	J7_12
34	PTC8	GPIO	PTC8	IO	8	J6_20
35	PTA14	GPIO	PTA14	IO	M4: GPIOA_14	J7_14
36	PTC14	GPIO	PTC14	IO	14	J6_22
37	PTA13	GPIO	PTA13	IO	M4: GPIOA_13	J7_16
38	PTC15	GPIO	PTC15	IO	15	J6_24
39	PTA12	GPIO	PTA12	IO	M4: GPIOA_12	J7_18
40	PTC16	GPIO	PTC16	IO	16	J6_26
41	PTA3	GPIO	PTA3	IO	M4: GPIOA_3	
42	PTC17	GPIO	PTC17	IO	17	J6_28
43	PTA1	GPIO	PTA1	IO	M4: GPIOA_1	(J12_4)

J3	Function	Device	GPIO	Mode	/sys/class/gpio/gpio#	PCoreULP_BB V1.00
44	PTC18	GPIO	PTC18	IO	18	
45	PTA0	GPIO	PTA0	IO	M4: GPIOA_0	(J12_6)
46	GND					
47	PTB1	GPIO	PTB1	IO	M4: GPIOB_1	J6_3
48	PTF11	GPIO	PTF11	IO	107	J7_1
49	PTB2	GPIO	PTB2	IO	M4: GPIOB_2	J6_5
50	PTF10	GPIO	PTF10	IO	106	J7_3
51	PTB3	GPIO	PTB3	IO	M4: GPIOB_3	J6_7
52	PTF9	GPIO	PTF9	IO	105	J7_5
53	PTB10	GPIO	PTB10	IO	M4: GPIOB_10	J6_11
54	PTF8	GPIO	PTF8	IO	104	J7_7
55	PTB11	GPIO	PTB11	IO	M4: GPIOB_11	J6_13
56	PTF7	GPIO	PTF7	IO	103	J7_9
57	PTB14	GPIO	PTB14	IO	M4: GPIOB_14	J6_19
58	PTF6	GPIO	PTF6	IO	102	J7_11
59	GND					
60	PTF5	GPIO	PTF5	IO	101	J7_13
61	LPSPi3_PCS0	GPIO	PTF19	IO	115	J7_23
62	PTF4	GPIO	PTF4	IO	100	J7_15
63	LPSPi3_SCK	GPIO	PTF18	IO	114	J7_25
64	PTF3	GPIO	PTF3	IO	99	J7_17
65	LPSPi3_SOUT	GPIO	PTF17	IO	113	J7_27
66	GND					
67	LPSPi3_SIN	GPIO	PTF16	IO	112	J7_29
68	HSIC_DATA					
69	GND					
70	HSIC_STROBE					
71	USB_VBUS_DETECT					
72	GND					
73	GND					
74	GND					
75	USB0_DM					
76	USB_OTG_PWR_EN	GPIO	PTC0	IO	0	(J13_1)
77	USB0_DP					
78	USB_OTG_ID	GPIO	PTC13	IO	13	J13_4
79	GND					
80	GND					

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Pin layout for Board Rev. 1.00

J2	Function	Device	GPIO	Mode	/sys/class/gpio/gpio#	PCoreULP_BB V1.00
1	GND					
2	GND					
3	JTAG_TRST					
4	SD1_D3 ⁽¹⁾	SD1	PTE4	IO	68	
5	JTAG_TDO					
6	SD1_D2 ⁽¹⁾	SD1	PTE5	IO	69	
7	JTAG_TCLK					
8	SD1_D1 ⁽¹⁾	SD1	PTE0	IO	64	
9	JTAG_TDI					
10	SD1_D0 ⁽¹⁾	SD1	PTE1	IO	65	
11	JTAG_TMS					
12	SD1_CLK ⁽¹⁾	SD1	PTE2	IO	66	
13	GND					
14	SD1_CMD ⁽¹⁾	SD1	PTE3	IO	67	
15	LPUART0_TX	LPUART0	PTA18	IO	M4: GPIOA_18	(J12_5)
16	WL_REG_ON	GPIO	PTE6	IO	70	J6_32
17	LPUART0_RX	LPUART0	PTA19	IO	M4: GPIOA_19	(J12_3)
18	BT_REG_ON	GPIO	PTE7	IO	71	J6_34
19	LPUART4_TX	LPUART4	PTC2	IO	2	(J11_5)
20	/LPI2C7_RST	GPIO	PTF1	IO	97	J4_4/(J5_3)
21	LPUART4_RX	LPUART4	PTC3	IO	3	(J11_3)
22	GND					
23	GND					
24	DSI_DATA0_P	MIPI-DSI				
25	/LPI2C7_IRQ	GPIO	PTF0	IO	96	J4_5/(J5_1)
26	DSI_DATA0_N	MIPI-DSI				
27	/MIPI_RESET	GPIO	PTC19	IO	19	
28	GND					
29	LED_PWM_EN	GPIO	PTF2	IO	98	J5_43
30	DSI_CLK_P	MIPI-DSI				
31	LPUART6_CTS ⁽²⁾	LPUART6	PTE8	IO	72	J6_2
32	DSI_CLK_N	MIPI-DSI				
33	LPUART6_RTS ⁽²⁾	LPUART6	PTE9	IO	73	J6_4
34	GND					
35	LPUART6_TX ⁽²⁾	LPUART6	PTE10	IO	74	J6_6
36	DSI_DATA1_P	MIPI-DSI				
37	LPUART6_RX ⁽²⁾	LPUART6	PTE11	IO	75	J6_8
38	DSI_DATA1_N	MIPI-DSI				
39	SD1_WP ⁽¹⁾	GPIO	PTE12	IO	76	
40	GND		-			
41	SD1_CD ⁽¹⁾	GPIO	PTE13	IO	77	
42	LPUART2_TX	LPUART2	PTA10	IO	M4: GPIOA_10	J7_26
43	GND					

J2	Function	Device	GPIO	Mode	/sys/class/gpio/gpio#	PCoreULP_BB V1.00
44	LPUART2_RX	LPUART2	PTA11	IO	M4: GPIOA_11	J7_28
45	LPUART5_TX	LPUART5	PTC6	IO	6	J6_10
46	LPUART2_RTS	LPUART2	PTA9	IO	M4: GPIOA_9	J7_24
47	LPUART5_RX	LPUART5	PTC7	IO	7	J6_12
48	LPUART2_CTS	LPUART2	PTA8	IO	M4: GPIOA_8	J7_22
49	LPI2C3_SCL	LPI2C3	PTB12	IO	M4: GPIOB_12	J6_15
50	GND					
51	LPI2C3_SDA	LPI2C3	PTB13	IO	M4: GPIOB_13	J6_17
52	PTB9	GPIO	PTB9	IO	M4: GPIOB_9	J6_9
53	GND					
54	LPUART7_TX	LPUART7	PTF14	IO	110	J7_19
55	PMC_3V3	V33				
56	LPUART7_RX	LPUART7	PTF15	IO	111	J7_21
57	LPI2C5_SCL	LPI2C5	PTC4	IO	4	(J3_11)
58	LPI2C7_SCL	LPI2C7	PTF12	IO	108	J4_3/J5_5
59	LPI2C5_SDA	LPI2C5	PTC5	IO	5	(J3_12)
60	LPI2C7_SDA	LPI2C7	PTF13	IO	109	J4_2/(J5_4)
61	GND					
62	GND					
63	LPI2C0_SCL	LPI2C0	PTA16	IO	M4: GPIOA_16	J7_4
64	/BOOTSEL					
65	LPI2C0_SDA	LPI2C0	PTA17	IO	M4: GPIOA_17	J7_6
66	AGND_AUD	AUDIO				
67	GND					
68	LOUT	AUDIO				
69	DAC0_OUT	DAC				
70	ROUT	AUDIO				
71	DAC1_OUT	DAC				
72	AGND_AUD	AUDIO				
73	GND					
74	LIN	AUDIO				
75	LHPOUT	AUDIO				
76	RIN	AUDIO				
77	RHPOUT	AUDIO				
78	AGND_AUD	AUDIO				
79	HP_VGND					
80	MIC	AUDIO				

(1) SD1 is not available if WLAN/Bluetooth is equipped

(2) LPUART6 is no available if WLAN/Bluetooth is equipped

PicoCoreMX7ULP GPIO Reference Card

V1.2

12.08.2019

Pin layout for Board Rev. 1.00

J3	Function	Device	GPIO	Mode	/sys/class/gpio/gpio#	PCoreULP_BB V1.00
1	GND					
2	VBAT_4V2					
3	GND					
4	VBAT_4V2					
5	GND					
6	VBAT_4V2					
7	ONOFF					
8	GND					
9	/RESET1					
10	/RESETIN					
11	/RESET0					
12	THM					
13	/A7_POWER_EN	GPIO	PTA25	IO	M4: GPIOA_25	
14	PTA20	GPIO	PTA20	IO	M4: GPIOA_20	
15	M4_PER_EN	GPIO	PTA21	IO	M4: GPIOA_21	
16	VDD_5V0					
17	TAMPER					
18	VDD_5V0					
19	GND					
20	VDD_5V0					
21	GND					
22	VDD_5V0					
23	VDD_PTE					
24	GND					
25	PMC_3V3					
26	GND					
27	GND					
28	PTC9	GPIO	PTC9	IO	9	J6_14
29	PTA31	GPIO	PTA31	IO	M4: GPIOA_31	J7_8
30	PTC11	GPIO	PTC11	IO	11	J6_16
31	PTA23	GPIO	PTA23	IO	M4: GPIOA_23	J7_10
32	PTC12	GPIO	PTC12	IO	12	J6_18
33	PTA15	GPIO	PTA15	IO	M4: GPIOA_15	J7_12
34	PTC13	GPIO	PTC13	IO	13	J6_20
35	PTA14	GPIO	PTA14	IO	M4: GPIOA_14	J7_14
36	PTC14	GPIO	PTC14	IO	14	J6_22
37	PTA13	GPIO	PTA13	IO	M4: GPIOA_13	J7_16
38	PTC15	GPIO	PTC15	IO	15	J6_24
39	PTA12	GPIO	PTA12	IO	M4: GPIOA_12	J7_18
40	PTC16	GPIO	PTC16	IO	16	J6_26
41	PTA3	GPIO	PTA3	IO	M4: GPIOA_3	
42	PTC17	GPIO	PTC17	IO	17	J6_28
43	PTA1	GPIO	PTA1	IO	M4: GPIOA_1	(J12_4)

J3	Function	Device	GPIO	Mode	/sys/class/gpio/gpio#	PCoreULP_BB V1.00
44	PTC18	GPIO	PTC18	IO	18	
45	PTA0	GPIO	PTA0	IO	M4: GPIOA_0	(J12_6)
46	GND					
47	PTB1	GPIO	PTB1	IO	M4: GPIOB_1	J6_3
48	PTF11	GPIO	PTF11	IO	107	J7_1
49	PTB2	GPIO	PTB2	IO	M4: GPIOB_2	J6_5
50	PTF10	GPIO	PTF10	IO	106	J7_3
51	PTB3	GPIO	PTB3	IO	M4: GPIOB_3	J6_7
52	PTF9	GPIO	PTF9	IO	105	J7_5
53	PTB10	GPIO	PTB10	IO	M4: GPIOB_10	J6_11
54	PTF8	GPIO	PTF8	IO	104	J7_7
55	PTB11	GPIO	PTB11	IO	M4: GPIOB_11	J6_13
56	PTF7	GPIO	PTF7	IO	103	J7_9
57	PTB14	GPIO	PTB14	IO	M4: GPIOB_14	J6_19
58	PTF6	GPIO	PTF6	IO	102	J7_11
59	GND					
60	PTF5	GPIO	PTF5	IO	101	J7_13
61	LPSPi3_PCS0	GPIO	PTF19	IO	115	J7_23
62	PTF4	GPIO	PTF4	IO	100	J7_15
63	LPSPi3_SCK	GPIO	PTF18	IO	114	J7_25
64	PTF3	GPIO	PTF3	IO	99	J7_17
65	LPSPi3_SOUT	GPIO	PTF17	IO	113	J7_27
66	GND					
67	LPSPi3_SIN	GPIO	PTF16	IO	112	J7_29
68	HSIC_DATA					
69	GND					
70	HSIC_STROBE					
71	USB_VBUS_DETECT					
72	GND					
73	GND					
74	GND					
75	USB0_DM					
76	USB_OTG_PWR_EN	GPIO	PTC0	IO	0	(J13_1)
77	USB0_DP					
78	USB_OTG_ID	GPIO	PTC8	IO	8	J13_4
79	GND					
80	GND					