				HLK	-TX510 Module Interface	Pin Definition
NO.	Pin name	Default function	Type	Pull up and down	Power domain	Interface
1	DPU_DPI_PCLK		I/O	NA	3.3V	
2	DPU_DPI_DE		I/O	NA	3.3V	
3	DPU_DPI_CM		I/O	NA	3.3V	
4	DPU_DPI_CSYNC		I/O	NA	3.3V	
5	DPU_DPI_D0		I/O	NA	3.3V	
6	DPU_DPI_D1		I/O	NA	3.3V	
7	DPU_DPI_D2		I/O	NA	3.3V	
8	DPU_DPI_D3		I/O	NA	3.3V	
9	DPU_DPI_D4		I/O	NA	3.3V	
10	DPU_DPI_D5		I/O	NA	3.3V	
11	DPU_DPI_D6		I/O	NA	3.3V	
12	DPU_DPI_D7		I/O	NA	3.3V	
13	DPU_DPI_D8		I/O	NA	3.3V	
14	DPU_DPI_D9		I/O	NA	3.3V	DPU RGB interface
15	DPU_DPI_D10		I/O	NA	3.3V	DI O ROD IIICHACE
16	DPU_DPI_D11		I/O	NA	3.3V	
17	DPU_DPI_D12		I/O	NA	3.3V	
18	DPU_DPI_D13		I/O	NA	3.3V	
19	DPU_DPI_D14		I/O	NA	3.3V	
20	DPU_DPI_D15		I/O	NA	3.3V	
21	DPU_DPI_D16		I/O	NA	3.3V	
22	DPU_DPI_D17		I/O	NA	3.3V	
23	DPU_DPI_D18		I/O	NA	3.3V	
24	DPU_DPI_D19		I/O	NA	3.3V	
25	DPU_DPI_D20		I/O	NA	3.3V	
26	DPU_DPI_D21		I/O	NA	3.3V	
27	DPU_DPI_D22		I/O	NA	3.3V	
28	DPU_DPI_D23		I/O	NA	3.3V	
29	CLK_24MHz_1		0	NA	3.3V	Synchronous clock output
30	CK805_JTG_TCK		I/O	down	3.3V	CK805 JTAG interface
31	CK805_JTG_TMS		I/O	ир	3.3V	CALOUS O ATA S INTERNACE
32	CK805_UART_RXD		I/O	NA	3.3V	CK805 UART interface
33	CK805_UART_TXD		I/O	NA	3.3V	
34	I2C3_SDA		I/O	up	3.3V	I2C interface
35	I2C3_SCL		I/O	up	3.3V	
36	USI1_SD0	USI1_UART_TXD	I/O	NA NA	3.3V	USI interface
37	USI1_SCLK	USI1_UART_RXD	I/O	NA NA	3.3V	
38	UART1_TXD		I/O	NA NA	3.3V	UART interface
39	UART1_RXD	**************************************	I/O	NA NA	3.3V	
40	USI0_SD0	USIO_UART_TXD	I/O	NA NA	3.3V	USI interface
41	USI0_SCLK	USI0_UART_RXD	I/O	NA NA	3.3V	
42	PWM_CH0		I/O	NA NA	3.3V	PWM interface
43	PWM_CH2		I/O	NA NA	3.3V	
44	UARTO_TXD		I/O	NA NA	3.3V	UART interface
45	UARTO_RXD		I/O	NA	3.3V	
46	I2C0_SCL		I/O	up	1.8V	

47	I2C0_SDA	I/O	up	1.8V	I2C interface
48	I2C1_SCL	I/O	up	1.8V	
49	I2C1_SDA	I/O	up	1.8V	
50	GND				
51	MIPI3_DATAP3	A	NA		
52	MIPI3_DATAN3	A	NA		
53	MIPI3_DATAP0	A	NA		
54	MIPI3_DATAN0	A	NA		
55	MIPI3_CLKP	A	NA		MIPI TX bus
56	MIPI3_CLKN	A	NA		
57	MIPI3_DATAP1	A	NA		
58	MIPI3_DATAN1	A	NA		
59	MIPI3_DATAP2	A	NA		
60	MIPI3_DATAN2	A	NA		
61	GND		NY A		
62	VBUS_HOST	A	NA NA	2.277	
63	DRVVBUS	0	NA NA	3.3V	rich · · · · ·
64	USB_ID	A	NA NA		USB interface
65	DM0	A	NA NA		
66	DP0	A	NA NA		
67	ADC_CH1	A	NA		ADC interface
68	ADC_CH2	A	NA		
69	MIPI2_DATAP1	A	NA		
70	MIPI2_DATAN1	A	NA		
71	MIPI2_CLKP	A	NA		MIPI RX bus
72	MIPI2_CLKN	A	NA		
73	MIPI2_DATAP0	A	NA		
74	MIPI2_DATAN0	A	NA		
75	GND				
76	MIPI1_DATAP1	A	NA		
77	MIPI1_DATAN1	A	NA NA		
78	MIPI1_CLKP	A	NA NA		MIPI RX bus
79	MIPI1_CLKN	A	NA NA		
80	MIPI1_DATAP0	A	NA NA		
81	MIPI1_DATAN0	A	NA		
82 83	GND MIDIO DATABI		NT A		
	MIPIO_DATAP1	A	NA NA		
84	MIPIO_DATAN1	A	NA NA		
85	MIPIO_CLKP	A	NA NA		MIPI RX bus
86 87	MIPIO_CLKN	A	NA NA		
	MIPIO_DATANO	A	NA NA		
88	MIPIO_DATANO	A	NA		
90	GND CLK 24MHz 2	0	N/ A	2 287	Cynahyonous alask autuut
90	CLK_24MHz_3 GND	<del>-                                    </del>	NA	3.3V	Synchronous clock output
91	AOGPIO11	I/O	NA	1.8V	
93	AOGPIO11 AOGPIO0	I/O	NA NA	1.8V 1.8V	
94	AOGPIO1	I/O	NA	1.8V	

95	AOGPIO4	I/O	NA	1.8V	
96	AOGPIO5	I/O	NA	1.8V	AOGPIO interface
97	AOGPIO7	I/O	NA	1.8V	AOGFIO interface
98	AOGPIO9	I/O	NA	1.8V	
99	AOGPIO2	I/O	NA	1.8V	
100	AOGPIO3	I/O	NA	1.8V	
101	AOGPIO8	I/O	NA	1.8V	
102	GND				
103	1V8_VDD_VOUT	P			1.8V power output
104	VDD_5V0	P			5V nower innut
105	VDD_5V0	P			5V power input
106	GND				
107	JTAG_NRST	I	NA	1.8V	Module hardware reset
108	CK804_JTG_TMS	I/O	up	3.3V	CK804 JTAG interface
109	CK804_JTG_TCK	I/O	down	3.3V	CROU4 J I AG IIIteriace
110	DPU_DPI_SD	I/O	NA	3.3V	
111	DPU_DPI_HSYNC	I/O	NA	3.3V	DPU RGB interface
112	DPU_DPI_VSYNC	I/O	NA	3.3V	

Description: Type: I = input, O = output, I/O = input/output (bidirectional), A = analogue, P = power

NA- Indicates indeterminate state, external pull-down resistors are available if the state needs to be determined.

UP/DOWN-Indicates there is an internal pull-up/down resistor.

103	1V8_VDD_VOUT	P			1.8V power output
104	VDD_5V0	P			5V nower input
105	VDD_5V0	P			5V power input
50	GND				
61	GND				
75	GND				
82	GND				
89	GND				
91	GND				
102	GND				
106	GND				
1	DPU_DPI_PCLK	I/O	NA	3.3V	
2	DPU_DPI_DE	I/O	NA	3.3V	
3	DPU_DPI_CM	I/O	NA	3.3V	
4	DPU_DPI_CSYNC	I/O	NA	3.3V	
5	DPU_DPI_D0	I/O	NA	3.3V	
6	DPU_DPI_D1	I/O	NA	3.3V	
7	DPU_DPI_D2	I/O	NA	3.3V	
8	DPU_DPI_D3	I/O	NA	3.3V	
9	DPU_DPI_D4	I/O	NA	3.3V	
10	DPU_DPI_D5	I/O	NA	3.3V	
11	DPU_DPI_D6	I/O	NA	3.3V	
12	DPU_DPI_D7	I/O	NA	3.3V	
13	DPU_DPI_D8	I/O	NA	3.3V	
14	DPU_DPI_D9	I/O	NA	3.3V	
15	DPU_DPI_D10	I/O	NA	3.3V	7

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16	DPU_DPI_D11		I/O	NA	3.3V	DPU RGB interface
17	DPU_DPI_D12		I/O	NA	3.3V	
18	DPU_DPI_D13		I/O	NA	3.3V	
19	DPU_DPI_D14		I/O	NA	3.3V	
20	DPU_DPI_D15		I/O	NA	3.3V	
21	DPU_DPI_D16		I/O	NA	3.3V	
22	DPU_DPI_D17		I/O	NA	3.3V	
23	DPU_DPI_D18		I/O	NA	3.3V	
24	DPU_DPI_D19		I/O	NA	3.3V	
25	DPU_DPI_D20		I/O	NA	3.3V	
26	DPU_DPI_D21		I/O	NA	3.3V	
27	DPU_DPI_D22		I/O	NA	3.3V	
28	DPU_DPI_D23		I/O	NA	3.3V	
110	DPU_DPI_SD		I/O	NA	3.3V	
111	DPU_DPI_HSYNC		I/O	NA	3.3V	
112	DPU_DPI_VSYNC		I/O	NA	3.3V	
51	MIPI3_DATAP3		A	NA		
52	MIPI3_DATAN3		A	NA		
53	MIPI3_DATAP0		A	NA		
54	MIPI3_DATAN0		A	NA		
55	MIPI3_CLKP		A	NA		MIPI TX bus
56	MIPI3_CLKN		A	NA		WIII I I A DUS
57	MIPI3_DATAP1		A	NA		
58	MIPI3_DATAN1		A	NA		
59	MIPI3_DATAP2		A	NA		
60	MIPI3_DATAN2		A	NA		
69	MIPI2_DATAP1		A	NA		
70	MIPI2_DATAN1		A	NA		
71	MIPI2_CLKP		A	NA		MIPI RX bus
72	MIPI2_CLKN		A	NA		WIII I IVA DUS
73	MIPI2_DATAP0		A	NA		
74	MIPI2_DATAN0		A	NA		
76	MIPI1_DATAP1		A	NA		
77	MIPI1_DATAN1		A	NA		
78	MIPI1_CLKP		A	NA		MIPI RX bus
79	MIPI1_CLKN		A	NA		WIII I IVA DUS
80	MIPI1_DATAP0		A	NA		
81	MIPI1_DATAN0		A	NA		
83	MIPIO_DATAP1		A	NA		
84	MIPIO_DATAN1		A	NA		
85	MIPI0_CLKP		A	NA		MIPI RX bus
86	MIPI0_CLKN		A	NA		MIII I IXA DUS
87	MIPI0_DATAP0		A	NA		
88	MIPIO DATANO		A	NA		
92	AOGPIO11		I/O	NA	1.8V	
93	AOGPIO0		I/O	NA	1.8V	
94	AOGPIO1		I/O	NA	1.8V	
95	AOGPIO4		I/O	NA	1.8V	
						I

96	AOGPIO5		I/O	NA	1.8V	AOCDIO: 4 C
97	AOGPIO7		I/O	NA	1.8V	AOGPIO interface
98	AOGPIO9		I/O	NA	1.8V	
99	AOGPIO2		I/O	NA	1.8V	
100	AOGPIO3		I/O	NA	1.8V	
101	AOGPIO8		I/O	NA	1.8V	
46	I2C0_SCL		I/O	up	1.8V	
47	I2C0_SDA		I/O	up	1.8V	
48	I2C1_SCL		I/O	up	1.8V	I2C interface
49	I2C1_SDA		I/O	up	1.8V	12C Interface
34	I2C3_SDA		I/O	up	3.3V	
35	I2C3_SCL		I/O	up	3.3V	
107	JTAG_NRST		I	NA	1.8V	Module hardware reset
108	CK804_JTG_TMS		I/O	up	3.3V	CLYONA LTAC :
109	CK804_JTG_TCK		I/O	down	3.3V	CK804 JTAG interface
30	CK805_JTG_TCK		I/O	down	3.3V	CWOOL TAKE: 4 C
31	CK805_JTG_TMS		I/O	ир	3.3V	CK805 JTAG interface
32	CK805_UART_RXD		I/O	NA	3.3V	CW005 HADE: 4 6
33	CK805_UART_TXD		I/O	NA	3.3V	CK805 UART interface
38	UART1_TXD		I/O	NA	3.3V	
39	UART1_RXD		I/O	NA	3.3V	WADE: 4 C
44	UART0_TXD		I/O	NA	3.3V	UART interface
45	UARTO_RXD		I/O	NA	3.3V	
40	USI0_SD0	USI0_UART_TXD	I/O	NA	3.3V	
41	USI0_SCLK	USI0_UART_RXD	I/O	NA	3.3V	TICY · A C
36	USI1_SD0	USI1_UART_TXD	I/O	NA	3.3V	USI interface
37	USI1 SCLK	USI1 UART RXD	I/O	NA	3.3V	
42	PWM_CH0		I/O	NA	3.3V	DIVINA :
43	PWM_CH2		I/O	NA	3.3V	PWM interface
62	VBUS_HOST		A	NA		
63	DRVVBUS		0	NA	3.3V	
64	USB_ID		A	NA		USB interface
65	DM0		A	NA		
66	DP0		A	NA		
67	ADC_CH1		A	NA		ADC: 4 C
68	ADC_CH2		A	NA		ADC interface
29	CLK_24MHz_1		0	NA	3.3V	
90	CLK 24MHz 3		0	NA	3.3V	Synchronous clock output