

## Power Requirements

DC power	12V 2A
Power Consumption (Board only)	22.5W (Including Bluetooth)

## Serial Pin Assignment

Pin	Signal
1	DVDD_3V3
2	UART_RXD1
3	UART_TXD1
4	GND

## JTAG Interface Pin Assignment

Pin	Signal	Pin	Signal
1	DVDD_1V8	2	DVDD_1V8
3	JTAG_TRSTN	4	NC
5	JTAG_TDI	6	GND
7	JTAG_TMS	8	GND
9	JTAG_TCK	10	GND
11	PULL_UP_1V8	12	GND
13	JTAG_TDO	14	GND
15	JTAG_SRSTN	16	GND
17	GND	18	GND
19	GND	20	GND

## USB 3.0 Port Pin Assignment

Pin	Signal	Pin	Signal
1	DVDD_5V_USB	2	USB_HS_CONN_DM
3	USB_HS_CONN_DP	4	GND
5	USB_SS_RX_N	6	USB_SS_RX_P
7	GND	8	CONN_USB_SS_TX_N
9	CONN_USB_SS_TX_P	10	GND
11	GND		

## LED Indicators

LED Array			
Location	Signal		
	Red	Green	Blue
LED1	GPIO_42	GPIO_44	GPIO_43
ED2	GPIO_28	GPIO_18	GPIO_19

## miniPCIe Slot Pin Assignment

Top side		Bottom side	
1	PCIE_WAKE_N	2	VDD_3V3
3	NC	4	GND
5	NC	6	NC
7	PULL_UP_3V3	8	NC
9	GND	10	NC
11	PCIE0_REFCLK_N	12	NC
13	PCIE0_REFCLK_P	14	NC
15	GND	16	NC
Mechanical key			
17	NC	18	GND
19	NC	20	NC
21	GND	22	PCIE_PERST_L
23	PCIE_RX_N	24	VDD_3V3
25	PCIE_RX_P	26	GND
27	GND	28	NC
29	GND	30	NC
31	PCIE_TX_N	32	NC
33	PCIE_TX_P	34	GND
35	GND	36	NC
37	GND	38	NC
39	VDD_3V3	40	GND
41	VDD_3V3	42	NC
43	NC	44	NC
45	VDD_5V	46	NC
47	VDD_5V	48	NC
49	VDD_5V	50	GND
51	VDD_5V	52	VDD_3V3
53	GND	54	GND

## GPIO Pin Mapping

GPIO Pin	Function	GPIO Pin	Function
GPIO_0	NC	GPIO_1	QPIC_BUSY_N
GPIO_2	RTC_SDA	GPIO_3	QPIC_WE_N
GPIO_4	QPIC_OE_N	GPIO_5	QPIC_DATA
GPIO_6	QPIC_DATA	GPIO_7	QPIC_DATA
GPIO_8	QPIC_DATA	GPIO_9	NC
GPIO_10	BOOT/QPIC_CLE	GPIO_11	QPIC_NAND_CS_N
GPIO_12	QPIC_DATA	GPIO_13	QPIC_DATA
GPIO_14	QPIC_DATA	GPIO_15	QPIC_DATA
GPIO_16	NC	GPIO_17	BOOT/QPIC_ALE
GPIO_18	BOOT/LED2_G	GPIO_19	BOOT/LED2_B
GPIO_20	BOOT	GPIO_21	BT_RESET
GPIO_22	QTZ_SPI_CS_BLS3	GPIO_23	UART_RXD
GPIO_24	BOOT/UART_TXD	GPIO_25	NAPA2_RESET
GPIO_26	NAPA2_INT	GPIO_27	NC
GPIO_28	BOOT/LED2_R	GPIO_29	NC
GPIO_30	EEPROM_SDA	GPIO_31	NC
GPIO_32	EEPROM_SCL	GPIO_33	QTZ_GPIO_22
GPIO_34	NC	GPIO_35	BOOT/NC
GPIO_36	BOOT/PULL DOWN (boot from NOR)	GPIO_37	MALIBU_RESET
GPIO_38	SPI0_CLK	GPIO_39	SPI0_CS
GPIO_40	SPI0_MISO	GPIO_41	SPI0_MOSI
GPIO_42	LED1_R	GPIO_43	LED1_B
GPIO_44	LED1_G	GPIO_45	BOOT
GPIO_46	IOT_UART_RTS	GPIO_47	IOT_UART_CTS
GPIO_48	IOT_UART_RX	GPIO_49	BOOT/IOT_UART_TX
GPIO_50	SPI2_CLK	GPIO_51	RTC_SCL
GPIO_52	SPI2_MISO	GPIO_53	BOOT/SPI2_MOSI
GPIO_54	NC	GPIO_55	NC
GPIO_56	SW_RST	GPIO_57	NC
GPIO_58	PCIE_PERST_N	GPIO_59	PCIE_WAKE_N
GPIO_60	NC	GPIO_61	NC
GPIO_62	NC	GPIO_63	NC
GPIO_64	PTA1_1	GPIO_65	BOOT/PTA1_2
GPIO_66	PTA1_0	GPIO_67	NC
GPIO_68	BOOT/MDC	GPIO_69	MDIO

## Ethernet LAN Port 0 Pin Assignment

Ethernet LAN Port0 (RJ45 1G)	
Pin	Signal
1	1G_CH0_P
2	1G_CH0_N
3	1G_CH1_P
4	1G_CH2_P
5	1G_CH2_N
6	1G_CH1_N
7	1G_CH3_P
8	1G_CH3_N

## Ethernet LAN Port 1 Pin Assignment

Ethernet LAN Port1 (RJ45 2.5G)	
Pin	Signal
1	2.5G_CH0_P
2	2.5G_CH0_N
3	2.5G_CH1_P
4	2.5G_CH2_P
5	2.5G_CH2_N
6	2.5G_CH1_N
7	2.5G_CH3_P
8	2.5G_CH3_N

COMPEX SYSTEMS  
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