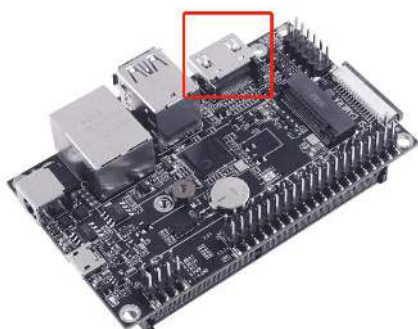
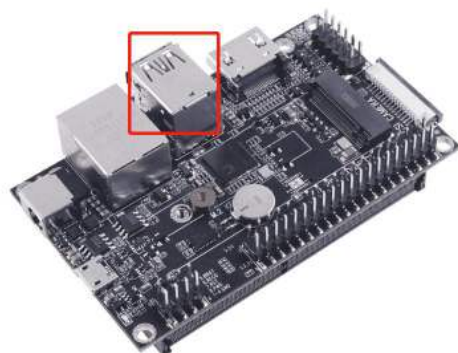


HDMI



Pin	Description	Pin	Description
1	TMDS Data2+	2	TMDS Data2 GND
3	TMDS Data2-	4	TMDS Data1+
5	TMDS Data1 GND	6	TMDS Data1-
7	TMDS Data0+	8	TMDS Data0 GND
9	TMDS Data0-	10	TMDS Clock+
11	TMDS Clock GND	12	TMDS Clock-
13	CEC	14	NC
15	DDC clock	16	DDC data
17	DDC GND	18	+5V
19	Hot Plug Detect		

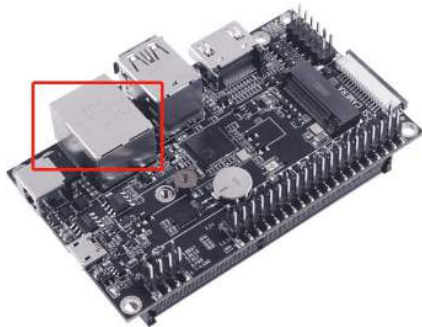
USB 3.0



Pin	Description	Pin	Description
1	VBUS	2	USB 2.0 D-

3	USB 2.0 D+	4	GND
5	SSRX-	6	SSRX+
7	GND	8	SSTX-
9	SSTX+	10	VBUS
11	USB 2.0 D-	12	USB 2.0 D+
13	GND	14	SSRX-
15	SSRX+	16	GND
17	SSTX-	18	SSTX+

Ethernet



Pin	Description	Pin	Description
1	TP0+	2	TP0-
3	TP1+	4	TP2+
5	TP2-	6	TP1-
7	TP3+	8	TP3-

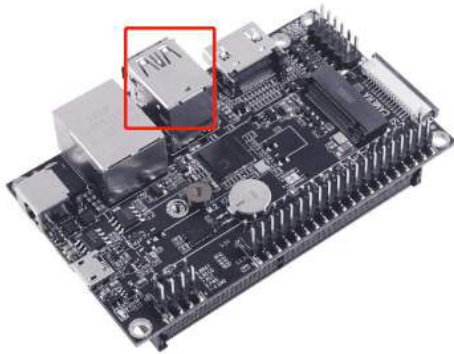
Power



Pin	Description	Pin	Description
1	DC		

Input : +7V—+19V

USB-OTG



Pin	Description	Pin	Description
1	VBUS	2	USB 2.0 D-
3	USB 2.0 D+	4	USB ID
5	GND		

Note

When USB-OTG is as server mode, pin 4 should be NC (No Connect).

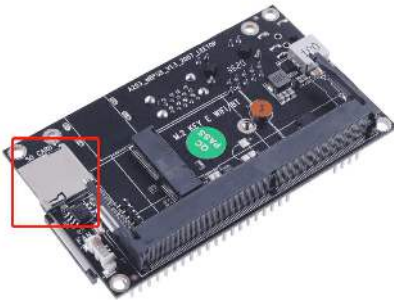
When USB-OTG is as client mode, pin 4 should be connected to the ground.

Fan



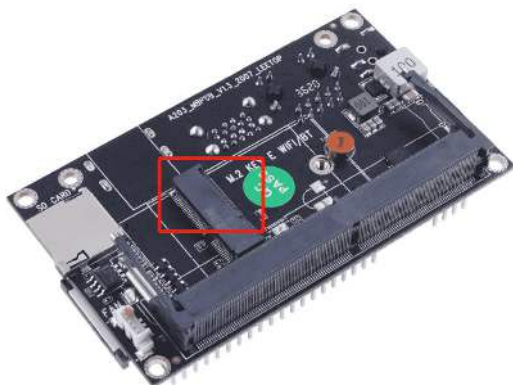
Pin	Description	Pin	Description
1	GND	2	+5V
3	FAN_TACH	4	FAN_PWM

Micro SD



Pin	Description	Pin	Description
1	SDIO_DATA2	2	SDIO_DATA3
3	SDIO_CMD	4	SDIO_VCC
5	SDIO_CLK	6	GND
7	SDIO_DATA0	8	SDIO_DATA1
9	GND	10	SDIO_CD

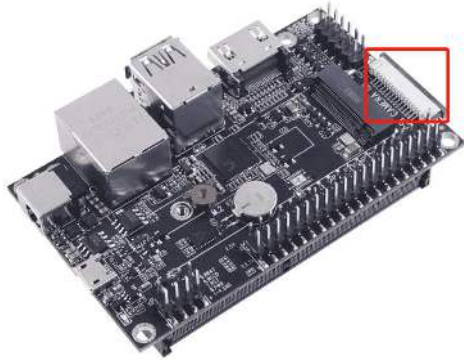
M.2



Pin	Description	Pin	Description
1	GND	2	+3.3V
3	USB_DP	4	+3.3V

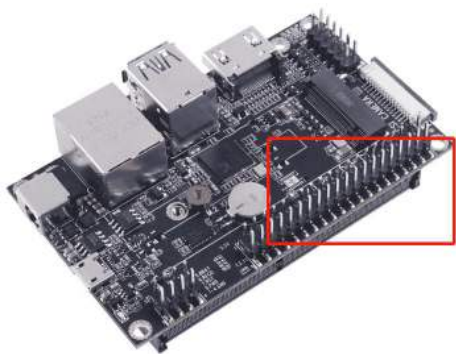
5	USB_DM	6	NC
7	GND	8	I2S_CLK
9	SDIO_CLK	10	I2S_FS
11	SDIO_CMD	12	I2S_DIN
13	SDIO_D0	14	I2S_DOUT
15	SDIO_D1	16	NC
17	SDIO_D2	18	GND
19	SDIO_D3	20	M2_WAKE_AP
21	M2_WAKE_AP	22	UART_RX
23	M2_EN	24	UART_TX
25	GND	26	UART_CT
27	TX4_AP_P	28	UART_RT
29	TX4_AP_N	30	NC
31	GND	32	NC
33	RX4_M2_P	34	NC
35	RX4_M2_N	36	NC
37	GND	38	NC
39	PEX_CLK1_P	40	NC
41	PEX_CLK1_N	42	CLK_32KHZ
43	GND	44	PCIE_L0_RST
45	PCIE_L0_CLKREQ	46	W_DISABLE2
47	PCIE_WAKE_L	48	W_DISABLE1
49	GND	50	I2C_SDA
51	NC	52	I2C_SCL
53	NC	54	M2_E_ALERT
55	GND	56	NC
57	NC	58	NC
59	NC	60	NC
61	GND	62	NC
63	NC	64	+3.3V
65	NC	66	+3.3V
67	GND		

CSI Camera



Pin	Description	Pin	Description
1	GND	2	CSI_A_D0_N
3	CSI_A_D0_P	4	GND
5	CSI_A_1_N	6	CSI_A_D1_P
7	GND	8	CSI_A_CLK_P
9	CSI_A_CLK_N	10	GND
11	CAM1_PWDN	12	CAM1_MCLK
13	CAM_I2C_SCL	14	CAM_I2C_SDA
15	+3.3V	16	

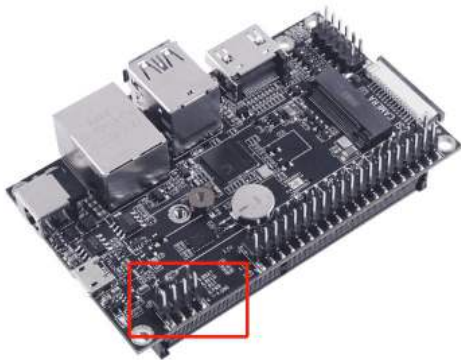
40 pin IO



Pin	Description	Pin	Description
1	3.3V	2	5V
3	I2C2_SDA	4	5V
5	I2C2_SCL	6	GND
7	GPIO9_(3.3V_LEVEL)	8	UART1_TXD

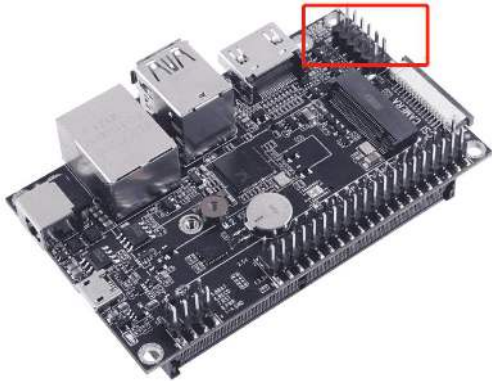
9	GND	10	UART1_RXD
11	UART1_RTS	12	I2S0_SCLK
13	SPI1_SCLK	14	GND
15	GPIO12_(3.3V_LEVEL)	16	SPI1_CS1
17	3.3V	18	SPI1_CS0
19	SPI0_MOSI	20	GND
21	SPI0_MISO	22	SPI1_MISO
23	SPI0_SCK	24	SPI0_CS0
25	GND	26	SPI0_CS1
27	I2C1_SDA	28	I2C1_SCL
29	GPIO1_(3.3V_LEVEL)	30	GND
31	GPIO11_(3.3V_LEVEL)	32	GPIO7_(3.3V_LEVEL)
33	GPIO13_(3.3V_LEVEL)	34	GND
35	I2S0_LRCK	36	UART1_CTS
37	SPI1_MOSI	38	I2S0_SDIN
39	GND	40	I2S0_SDOOUT

8 pin IO



Pin	Description	Pin	Description
1	GND	5	PWR_BTN-
2	GND	6	RECOVERY
3	GND	7	RST
4	GND	8	PWR_BTN+

CAN



Pin	Description	Pin	Description
1	RS232_TXD	5	CAN_H0
2	RS232_RXD	6	CAN_L0
3	GND	7	MCU_C2CK
4	MCU_C2D	8	3.3V

USB 2.0



Pin	Description	Pin	Description
1	GND	9	5V
2	USB3.0_RX_N	10	GND
3	USB3.0_TX_P	11	NC
4	USB3.0_TX_N	12	NC
5	USB3.0_RX_P	13	NC
6	USB2.0_DM	14	NC
7	USB2.0_DP	15	NC

8		5V		
---	--	----	--	--