

Micro HDMI

Pin	Pin Description	Pin	Pin Description
1	TMDS Data2+	2	Utility
3	TMDS Data2-	4	TMDS Data2 Shield
5	TMDS GND	6	TMDS Data1+
7	TMDS Data0+	8	TMDS Data1-
9	TMDS Data0-	10	TMDS Data0 Shield
11	TMDS GND	12	TMDS Clock+
13	CEC	14	TMDS Clock-
15	DDC Clock	16	DDC /CEC Ground
17	SCL	18	SDA
19	+5V Power		

USB 3.0

Pin	Pin Description	Pin	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+		

Micro USB

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

USB 2.0			
Pin	Pin Description	Pin	Pin Description
1	VCC	2	USB 2.0 D-
3	USB 2.0 D+	4	GND

Fan

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

Ethernet

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

5V POWER

Pin	Pin Description	Pin	Pin Description
1	VDD_5V	2	GND
3	VDD_5V	4	GND

Input range: 5V

16 Pin

Pin	Pin Description	Pin	Pin Description
1	3.3V	2	RTC_BAT_INPUT
3	I ² C0_SCL_3V3	4	I ² C0_SDA_3V3
5	UART0_TX	6	UART0_RX
7	UART1_TX	8	UART1_RX
9	UART2_TX	10	UART2_RX
11	GPIO_1_3V3	12	GPIO_7_3V3
13	GPIO_11_3V3	14	GPIO_13_3V3
15	GND	16	GND

Note: URAT2 could use as debug port : /dev/ttyTCU0(NX); /dev/ttyS0(NANO),
 Debugging tool could use 'cutecom' : sudo apt-get install cutecom,
 When connecting TX2 NX, set port rate as 11520/8N1 could transfer data,
 URAT0: /dev/ttyTHS1(NX); /dev/ttyTHS2(NANO),
 URAT1: /dev/ttyTHS0(NX); /dev/ttyTHS1(NANO),
 GPIO_1: 421(NX);149(NANO); could set as Input,
 GPIO_7: 424(NX);168(NANO);could set as Output,
 GPIO_11: 422(NX);200(NANO);could set as Output,
 GPIO_13: 393(NX);38(NANO);could set as Input.

J5

Connecting with jumper line could automatically power on once it has power.

