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	Orange PI CM	14 JP1	100PI	IN .		
Description	Signal	PIN NO. Signal			Description	
Ground (0V)	GND	1	2	GND	Ground (0V)	
Ethernet Pair 3 Positive	PHY0_MDI_3+	3	4	PHY0_MDI_1+	Ethernet Pair 1 Positive	
Ethernet Pair 3 Negative	PHY0_MDI_3-	5	6	PHY0_MDI_1-	Ethernet Pair 1 Negative	
Ground (0V)	GND	7	8	GND	Ground (0V)	
Ethernet Pair 2 Negative	PHY0_MDI_2-	9	10	PHY0_MDI_0-	Ethernet Pair 0 Negative	
Ethernet Pair 2 Positive	PHY0_MDI_2+	11	12	PHY0_MDI_0+	Ethernet Pair 0 Positive	
Ground (0V)	GND	13	14	GND A	Ground (0V)	
When pulling up CFG_EXT pin, CFG_LDO[1:0] stand for input voltage selection of external power for I/O	PHY0_LED2/CFG_LDO1		16	Reserved	Do not Connect anything to this pin.	
///	PHY0_LED1/CFG_LDO0	17	18	Reserved	Do not Connect anything to this pin.	
I/O PadExternal Power Source Mode Configuration. Pull up to use the external power source for the I/O pad	PHY0_LED0/CFG_EXT	19	20	Reserved	Do not Connect anything to this pin.	
GPIO Typically a 3.3V	DIY LED	21	22	GND	Ground (0V)	
Ground (0V)	GND	23	24	GPIO3_D3	GPIO Typically a 3.3V , 3.3V or 1.8V	
GPIO Typically a 3.3V , 3.3V or 1.8V	GPIO3_D1 (I2S1_SDO_M1)	25	26	GPIO3_D0 (I2S1_LRCK_M1)	GPIO Typically a 3.3V , 3.3V or 1.8V	
GPIO Typically a 3.3V , 3.3V or 1.8V	GPIO3_D2 (I2S1_SDI_M1)	27	28	GPIO3_D7	GPIO Typically a 3.3V , 3.3V or 1.8V	
GPIO Typically a 3.3V , 3.3V or 1.8V	GPIO3_D5	29	30	GPIO3_D4	GPIO Typically a 3.3V , 3.3V or 1.8V	
GPIO Typically a 3.3V , 3.3V or 1.8V	GPIO4_C0	31	32	GND	Ground (0V)	
Ground (0V)	GND	33	34	GPIO4_A5	GPIO Typically a 3.3V , 3.3V or 1.8V	
GPIO Typically a 3.3V	GPIO1_A1 (I2C3_SCL_M0) 3.3LV	35	36	GPIO1_A0 (I2C3_SDA_M0) 3.3LV	GPIO Typically a 3.3V	
GPIO Typically a 3.3V , 3.3V or 1.8V	GPIO4_A7 (SPI3_CS1_M0)	37	38	GPIO4_B3 (SPI3_CLK_M0)	GPIO Typically a 3.3V , 3.3V or 1.8V	
GPIO Typically a 3.3V , 3.3V or 1.8V	GPIO4_A6 (SPI3_CS0_M0)	39	40	GPIO4_B0 (SPI3_MISO_M0 )	GPIO Typically a 3.3V , 3.3V or 1.8V	
GPIO Typically a 3.3V , 3.3V or 1.8V	GPIO4_A4	41	42	GND	Ground (0V)	
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Ground (0V)	· *III/th?			GPIO4_B2 (SPI3 MOSI M0	GPIO Typically a 3.3V , 3.3V or 1.8V	
	GND	43	44	)		
GPIO Typically a 3.3V , 3.3V or 1.8V	GPIO4_A1	45	46	GPIO4_A2	GPIO Typically a 3.3V , 3.3V or 1.8V	
GPIO Typically a 3.3V , 3.3V or 1.8V	GPIO4_A3	47	48	GPIO4_A0	GPIO Typically a 3.3V , 3.3V or 1.8V	
GPIO Typically a 3.3V , 3.3V or 1.8V	GPIO3_C7 (I2S1_SCLK_M1)	49	50	GPIO3_C6 (I2S1_MCLK_M1 )	GPIO Typically a 3.3V , 3.3V or 1.8V	
GPIO Typically a 3.3V , 3.3V or 1.8V	GPIO0_D0 (UART2_RX_M0)	51	52	GND XXX	Ground (0V)	
Ground (0V)	GND	53	54	GPIO4_C3	GPIO Typically a 3.3V , 3.3V or 1.8V	
GPIO Typically a 3.3V , 3.3V or 1.8V	GPIO0_D1 (UART2_TX_M0)	55	56	GPIO4_B5 (I2C2_SCL_M1)	GPIO Typically a 3.3V , 3.3V or 1.8V	
GPIO Typically a 3.3V , 3.3V or 1.8V	SDMMC0_CLK	57	58	GPIO4_B4 (I2C2_SDA_M1)	GPIO Typically a 3.3V , 3.3V or 1.8V	
Ground (0V)	GND	59	60	GND	Ground (0V)	
SDCARD Data3 signal	SDMMC0_D3	61	62	SDMMC0_CMD	SDCARD CMD signal	
SDCARD Data0 signal	SDMMC0_D0	63	64	Reserved	Do not Connect anything to this pin.	
Ground (0V)	GND _	65	66	GND	Ground (0V)	
SDCARD Data1 signal	SDMMC0_D1	67	68	SW_RECOVERY	RECOVERY signal, Internally pulled up via 10 to 1.8V	
SDCARD Data2 signal	SDMMC0_D2	69	70	SARADC_VIN1	ADC signal	
Ground (0V)	⟨ŵ GND	71	72	GPIO0_C6- PWM7_IR	GPIO Typically a 3.3V , PWM_IR signal	
Do not Connect anything to this pin.	Reserved	73	74	GND	Ground (0V)	
Output to Power switch for the SDCARD.	SD_PWR_ON	75	76	SDMMC0_DET_ L	SDMMC0_DET,	
	VBUS	77	78	VCCIO6	for 3.3V GPIO or for 1.8V GPIO.	
2 TV	VBUS	79	80		IIC Clock pin,Typically a 3.3V	
4.75V-5.25V Main power input max 4A	VBUS	81	82		IIC Data pin,Typically a 3.3V	
T.75V 5.25V Mail power input max 44	VBUS	83	84	VCC_3V3	3.3V +/-2.5% Power Output max 2A	
· (本)	VBUS	85	86	VCC_3V3	3.3V +/-2.3% POWEI Output Max 2A	
,	VBUS	87	88	VCC_1V8		
Can be left floating if driven low the wireless interface will be disabled.Internal pulled up					1.8V +/-2.5% Power Output max 600mA	
via IO to 1.8V	WL_nDIS	89	90	VCC_1V8		

Can be left floating if driven low the Bluetooth interface will be disabled,Internal pulled up via IO to 1.8V	BT nDIS	91	92		Bidirectional pin. Can be driven low to Reset the CM4 CPU.
A low on this pin forces booting , Internally pulled up	\-				-//-
via IO to1.8V	BOOT-SW	93	94	SARADC_VIN3	ADC in signal
GPIO Typically a 3.3V , PWM signal	WORK_LED	95	96	SARADC_VIN2	117
GPIO Typically a 3.3V	CAMERA_PDN_L	97	98	GND	Ground (0V)
Input. Drive low to power off CM4. Internally pulled up					GPIO Typically a 3.3V
with a 30K to +3.3V	PMIC_PWRON	99	100	nEXTRST	GPIO Typically a 5.5v

Orange PI CM4 JP2 100PIN							
Description	Signal	PIN	NO.	Signal	Description		
Input ( 3.3V signal ) USB OTG Pin. Internal pulled up.	USB_OTG0_ID	1	2	PCIE20_CLKR EQn_3V3_L	Input (3.3V signal) PCIe Clock request pin (low to request PCI clock). Internal pulled up		
USB D-	USB_OTG0_DM	3	4	PCIE20_WAK En_3V3_L	Input (3.3V signal) PCIe wake up pin (low to wake up CPU). Internal pulled up.		
USB D+	USB_OTG0_DP	5	6	Reserved	Do not Connect anything to this pin.		
Ground (0V)	GND-	7	8	GND	Ground (0V)		
Output (+3.3V signal) PCIe Reset Low active	PCIE20_PERSTn_3V 3_L	9	10	PCIE20_REFC LKP_P	PCIe Clock Out Positive (100MHz) NB AC coupling Capacitor Included on CM4		
Do not Connect anything to this pin.	Reserved	11	12	PCIE20_REFC LKP_N	PCIe Clock Out Negative (100MHz) NB AC coupling Capacitor Included on CM4		
Ground (0V)	GND	13	14	GND	Ground (0V)		
Input Camera0 D0 Negative	MIPI_CSI_RX_D0N	15	16	PCIE20_RXP	Input PCIe GEN 2 RX Positive NB External AC coupling Capacitor required		
nput Camera0 D0 Positive	MIPI_CSI_RX_D0P	17	18	PCIE20_RXN	Input PCIe GEN 2 RX Negative NB External AC coupling Capacitor required		
Ground (0V)	GND	19	20	GND	Ground (0V)		

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Input Camera0 D1 Negative					Output PCIe GEN 2 TX Positive NB AC
Input Camerao D1 Negative	MIPI_CSI_RX_D1N	21	22	PCIE20_TXP	coupling Capacitor Included on CM4
Input Camera0 D1 Positive	-17				Output PCIe GEN 2 TX Positive NB AC
·	MIPI_CSI_RX_D1P	23	24		coupling Capacitor Included on CM4
Ground (0V)	GND	25	26	GND	Ground (0V)
Input Camera0 Clock Negative	MIPI_CSI_RX_CLK0 N	27	28	MIPI_CSI_RX_ D2N	Input Camera1 D0 Negative
Input Camera0 Clock Positive	MIPI_CSI_RX_CLK0 P	29	30	MIPI_CSI_RX_ D2P	Input Camera1 D0 Positive
Ground (0V)	GND	31	32	GND	Ground (0V)
Input Camera0 D2 Negative	MIPI_CSI_RX_D2N	33	34	MIPI_CSI_RX_ D3N	Input Camera1 D1 Negative
Input Camera0 D2 Positive	MIPI_CSI_RX_D2P	35	36	MIPI_CSI_RX_ D3P	Input Camera1 D1 Positive
Ground (0V)	GND	37	- 38	GND	Ground (0V)
Input Camera0 D3 Negative	MIPI_CSI_RX_D3N	39	40	MIPI_CSI_RX_ CLK1N	Input Camera1 Clock Negative
Turnet Caller of D2 Davising				MIPI_CSI_RX_	Towns Communa Class Braiding
Input Camera0 D3 Positive	MIPI_CSI_RX_D3P	41	42	CLK1P	Input Camera1 Clock Positive
EDP_TX_D3P	EDP_TX_D3P	43	44	GND	Ground (0V)
EDP_SDA	EDP_SDA (I2C4_SDA_M1)	45	46	EDP_TX_D2P	EDP_TX_D2P
	EDP_SCL				
EDP_SCL	(I2C4_SCL_M1)	47	48	EDP_TX_D2N	EDP_TX_D2N
EDP_TX_D3N	EDP_TX_D3N	49	50		Ground (0V)
HDMI_CEC_PORT	HDMI_CEC_PORT	51	52	EDP_TX_D1P	EDP_TX_D1P
HDMI_TX_HPD_PORT	HDMI_TX_HPD_PO RT	53	54	EDP_TX_D1N	EDP_TX_D1N
Ground (0V)	GND	55	56	GND	Ground (0V)
MIPI_DSI_TX0_D0N	MIPI_DSI_TX0_D0N	57	58	EDP_TX_D0P	EDP_TX_D0P
MIPI_DSI_TX0_D0P	MIPI_DSI_TX0_D0P	59	60	EDP_TX_D0N	EDP_TX_D0N
Ground (0V)	GND	61	62	GND	Ground (0V)
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					EDP_TX_AUX	- <del>-                                  </del>
MIPI_DSI_TX0_D1N		MIPI_DSI_TX0_D1N	63	64	Р	EDP_TX_AUXP
		-17			EDP_TX_AUX	***
MIPI_DSI_TX0_D1P		MIPI_DSI_TX0_D1P	65	66	N	EDP_TX_AUXN
Ground (0V)	. 1	GND	67	68	GND	Ground (0V)
		MIPI_DSI_TX0_CLK			HDMI_TX2P_	
MIPI_DSI_TX0_CLKN	/XXX	N	69	70	PORT	HDMI_TX2P_PORT
	T. T. T.	MIPI_DSI_TX0_CLK			HDMI_TX2N_	K.
MIPI_DSI_TX0_CLKP	-2000	Р	71	72	PORT	HDMI_TX2N_PORT
Ground (0V)		GND	73	74	GND	Ground (0V)
-4	i k				HDMI_TX1P_	À
MIPI_DSI_TX1_D0N	11	MIPI_DSI_TX1_D0N	75	76	PORT	HDMI_TX1P_PORT
					HDMI_TX1N_	^
MIPI_DSI_TX1_D0P		MIPI_DSI_TX1_D0P	77	-78	PORT	HDMI_TX1N_PORT
Ground (0V)		GND	79	- 80	GND	Ground (0V)
W.K.		,	XX		HDMI_TX0P_	
MIPI_DSI_TX1_D1N		MIPI_DSI_TX1_D1N	81	82	PORT	HDMI_TX0P_PORT
X3)NO		-2,70			HDMI_TX0N_	
MIPI_DSI_TX1_D1P		MIPI_DSI_TX1_D1P	83	84	PORT	HDMI_TX0N_PORT
Ground (0V)		GND	85	86	GND	Ground (0V)
/,		MIPI_DSI_TX1_CLK			HDMI_TXCLK	
MIPI_DSI_TX1_CLKN		N	87	88	P_PORT	HDMI_TXCLKP_PORT
	^	MIPI_DSI_TX1_CLK			HDMI_TXCLK	
MIPI_DSI_TX1_CLKP		Р	89	90	N_PORT	HDMI_TXCLKN_PORT
Ground (0V)	W.K.	GND	91	92	GND	Ground (0V)
					MIPI_DSI_TX	
MIPI_DSI_TX1_D2N	-2770	MIPI_DSI_TX1_D2N	93	94	1_D3N	MIPI_DSI_TX1_D3N
					MIPI_DSI_TX	
MIPI_DSI_TX1_D2P	(学)	MIPI_DSI_TX1_D2P	95	96	1_D3P	MIPI_DSI_TX1_D3P
Ground (0V)	11.	GND	97	98	GND	Ground (0V)
		HDMI_TXDDC_SDA			HDMI_TXDD	
HDMI_TXDDC_SDA_PORT		_PORT	99	100	C_SCL_PORT	HDMI_TXDDC_SCL_PORT
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Description	Signal	PIN	NO.	Signal	Description
Ground (0V)	GND	1	2	GND	Ground (0V)
USB 2.0 Data signal DM	USB2_HOST3_DM	3	4	HPR_OUT	Right channel output of the headphone
USB 2.0 Data signal DP	USB2_HOST3_DP	5	6	HPL_OUT	Left channel output of the headphone
Ground (0V)	GND	7	8	HP_SNS	Reference ground for the headphone
USB 2.0 Data signal DM	USB2_HOST2_DM	9	10	MIC1_IN	Negative input of the Microphone
USB 2.0 Data signal DP	USB2_HOST2_DP	11	12	MIC2_IN	Positive input of the Microphone
Ground (0V)	GND	13	14	GND X	Ground (0V)
headphone insertion detection	HP_DET_L	15	16		USB 3.0 transmission signal DP
Ground (0V)	GND	17	18	USB3_HOST1	USB 3.0 transmission signal DN
USB 2.0 Data signal DM	USB3_HOST1_DM	19	20	GND	Ground (0V)
USB 2.0 Data signal DP	USB3_HOST1_DP	21	22	USB3_HOST1	USB 3.0 receive signal DP
Ground (0V)	GND	23	24	USB3_HOST1	USB 3.0 receive signal DN
Ground (0V)	流光	N. A. S.	1/2 1/2,		·探州府港地域。

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