

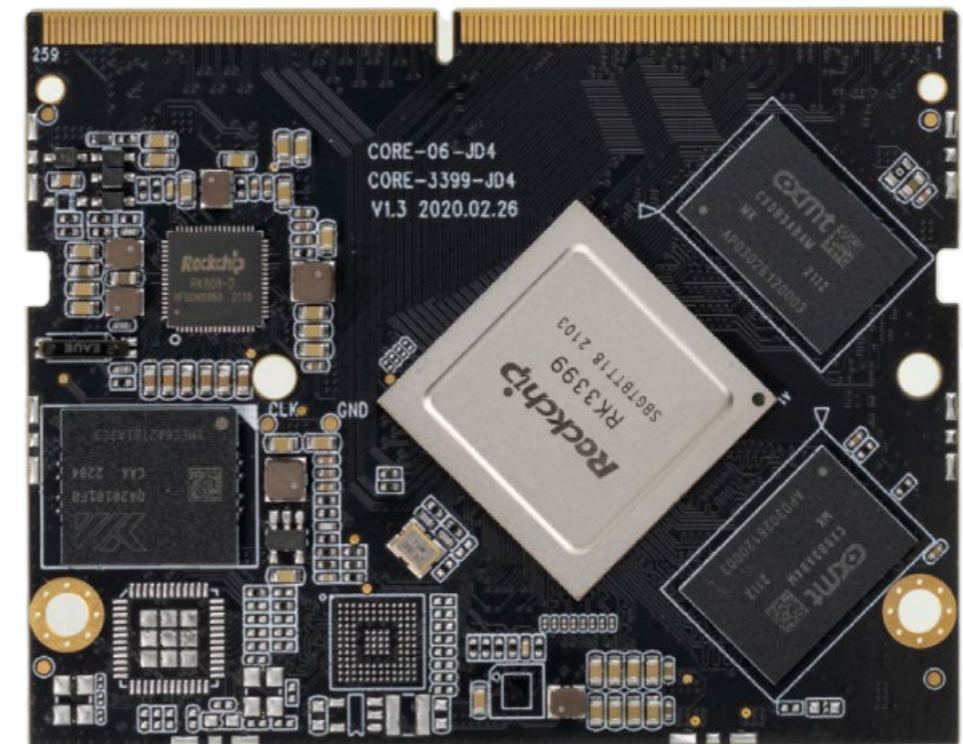


Hexa-Core High Performance Core Board

- | Core-3399-JD4(Commercial)
- | Core-3399K-JD4(Industrial)

V1.3 2024-10-8

T-CHIP INTELLIGENCE TECHNOLOGY



Product features



Six-core 64-bit High-performance Processor

Adopts RK3399 six-core 64-bit (A72x2+A53x4) high-performance processor, frequency up to 1.8GHz, integrated quad-core ARM high-end GPU Mali-T860.



Powerful Hardware Decoding Capability

Supports MIPI-DSI, EDP, HDMI, DP1.2 multiple display output interfaces, dual-screen identical display/dual-screen differential display, supports 4K@60fps H.265/VP9, 4K@30fps H.264 video decoding, and 1080P@30fps H.264/AVC/VP8 video encoding.



Dual ISP processing

Dual hardware ISP, up to 13MPix/s or 8MPix/s dual, simultaneous input of dual-channel camera data, and high-end processing such as panoramic shooting, gesture detection, depth detection, and 3D, accelerate image recognition applications.



Strong network communication capabilities

Integrated GMAC/SDIO3.0/USB3.0 interfaces, expandable to 1 Gigabit Ethernet, 2.4GHz/5GHz dual band WiFi/Bluetooth, 3G/4G LTE, providing higher network communication speeds.

Product features



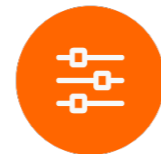
Stable And Reliable

With SODIMM 260P interface, the data transmission and expansion performance can be best achieved, immersion gold process pin, corrosion resistant, 2 studs fixed, stable and reliable. Designed measurement is only 69.6mm×55mm for saving more precious space.



Support For Multiple OS

It supports Android, Linux+QT, and Ubuntu operating systems to provide a safe and stable system environment for product research and production.



Rich Extension Interfaces

With rich interfaces such as I2C, SPI, UART, ADC, PWM, GPIO, PCIe, USB3.0, I2S (supports 8-way digital microphone array input), and so on.



A wide range of applications

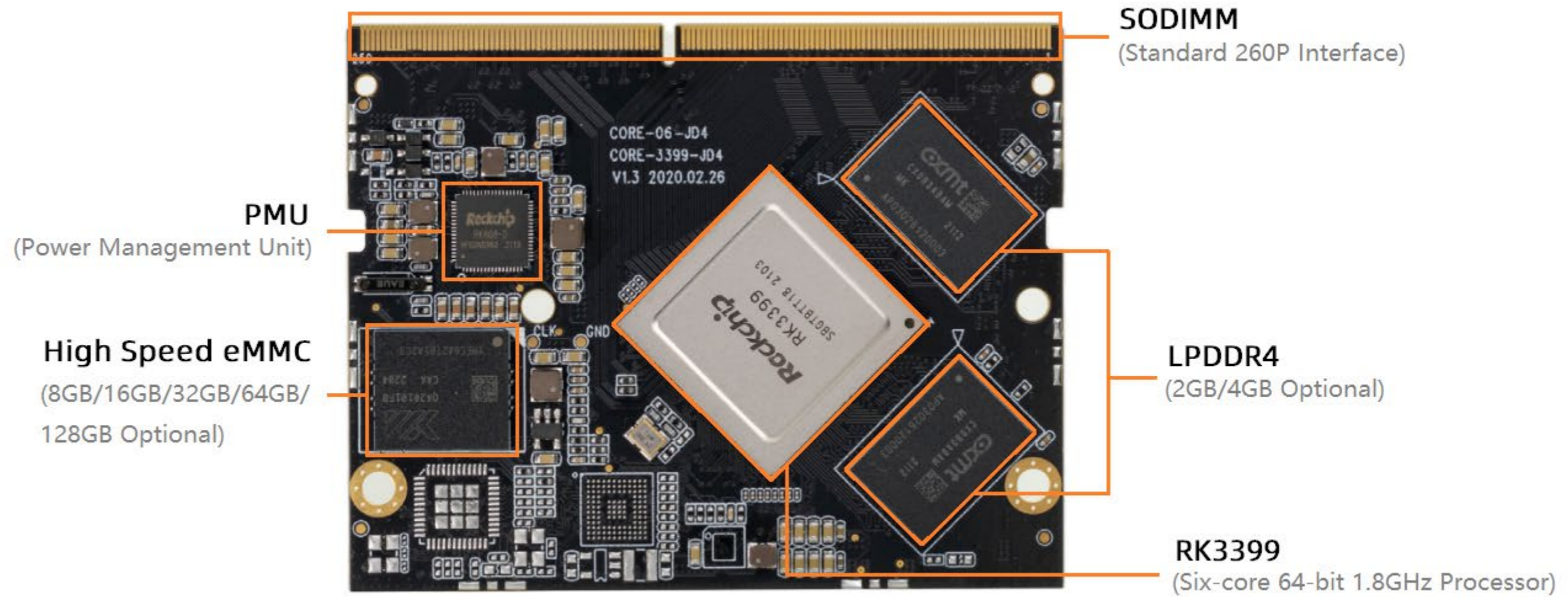
It is suitable for cluster servers, high-performance computing/storage, computer vision, gaming equipment, commercial display equipment, medical equipment, vending machines, industrial computers, etc.

Specifications

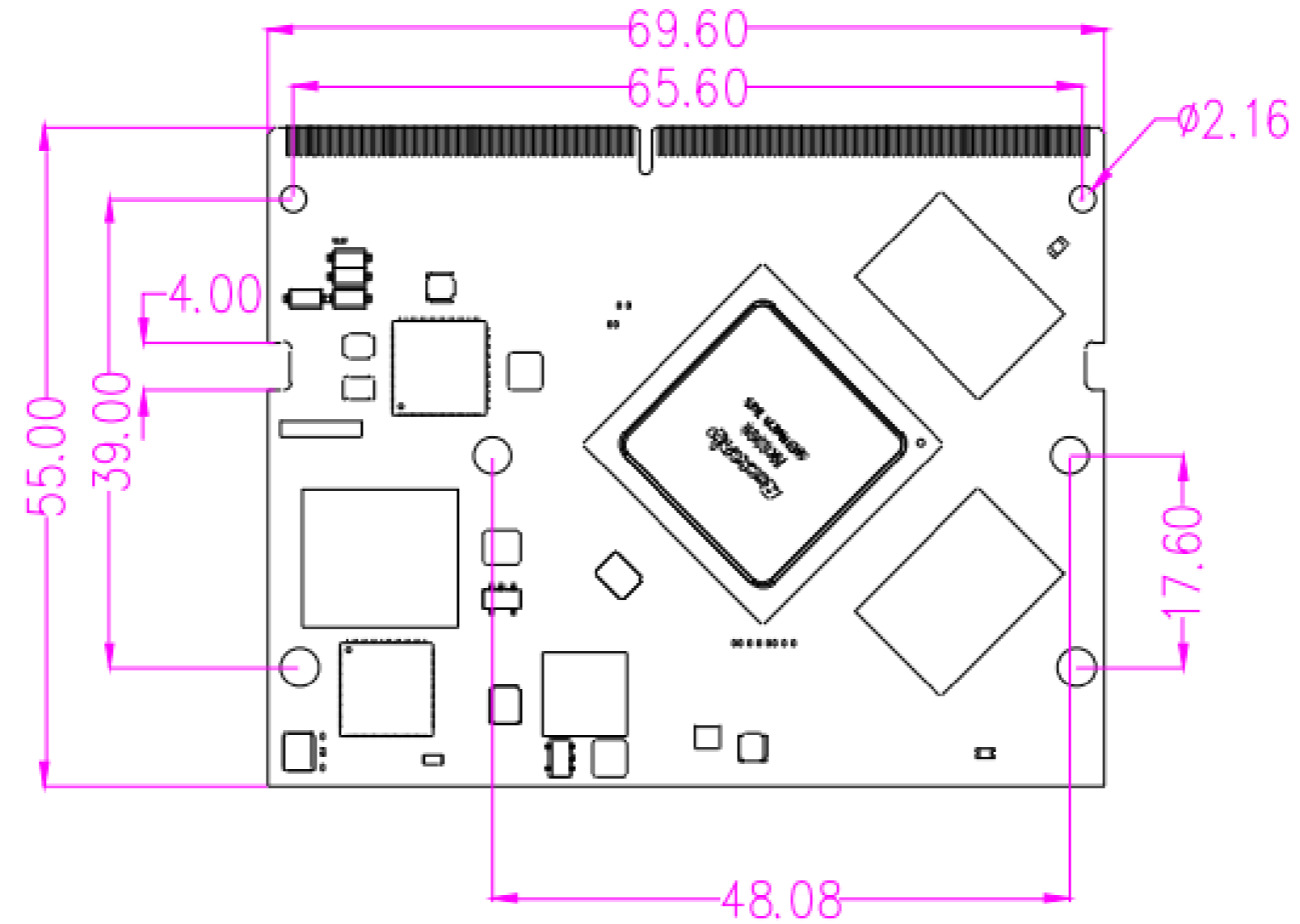


		Core-3399-JD4(Commercial)	Core-3399K-JD4(Industrial)
Basic Specifications	CPU	RK3399 Hexa-core 64-bit (Cortex-A72x2 + Cortex-A53x4) processor Up to 1.8GHz	RK3399K Hexa-core 64-bit (Cortex-A72x2 + Cortex-A53x4) processor Up to 2.0GHz
	GPU	Mali-T860 MP4 quad-core GPU Support OpenGL ES1.1/2.0/3.0/3.1, OpenVG1.1, OpenCL, DX11 Support AFBC (Frame Buffer Compression)	
	ISP	Built-in dual hardware ISP Support up to single 13M pixel or dual 8M pixel	
	VPU	Hardware decoding: 4K@60fps H.265/VP9, 4K@30fps H.264 video decoding, 1080P@60fps(VC-1, MPEG-1/2/4) multi-format video decoding Hardware encoding: 1080P@30fps H.264/AVC/VP8 video encoding Video post-processing: deinterlacing, noise reduction, edge/detail/color optimization	
	RAM	LPDDR4 (2GB/4GB optional)	
	Storage	eMMC (16GB/32GB/64GB/128GB optional)	
	Power	5V (voltage tolerance $\pm 5\%$)	
	Power consumption	Normal: 3.41W(5V/682mA), Max: 10W(5V/2000mA)	
	OS	Android and Linux OS	
	Interface	Gold finger (260 PIN, SODIMM, 0.5mm pitch)	
	Size	69.6mm \times 55 mm	
	Environment	Operating temperature: -20°C ~ 60°C Operating humidity: 10% ~ 90%RH (non-condensing)	Operating temperature: -20°C ~ 70°C Operating humidity: 10% ~ 90%RH (non-condensing)
Interface Specifications	Internet	Integrated with GMAC/SDIO3.0/USB3.0, expandable 1 Gigabit Ethernet, 2.4GHz/5GHz dual-band WiFi/Bluetooth, 3G/4G LTE	
	Video Input	2 \times MIPI-CSI (4 lanes)	
	Video Output	1 \times HDMI2.0 (supports 4K@60fps output and HDCP 1.4/2.2) 1 \times MIPI-DSI (supports single-channel 2560 \times 1600@60fps output) 1 \times eDP1.3 (4 lanes with 10.8Gbps) 1 \times DP1.2 (DisplayPort, supports up to 4K \times 2K@60Hz resolution, output from the Type-C) * Support dual-display	
	Audio Output	2 \times I2S/PCM, 1 \times SPDIF	
	USB	2 \times USB2.0 HOST, 2 \times USB3.0 OTG	
	PCIe	1 \times PCIe2.1	
	Other	8 \times I2C, 5 \times SPI, 5 \times UART, 4 \times ADC, 3 \times PWM, GPIOs, 2 \times I2S (supporting 8-channel digital microphone array input)	

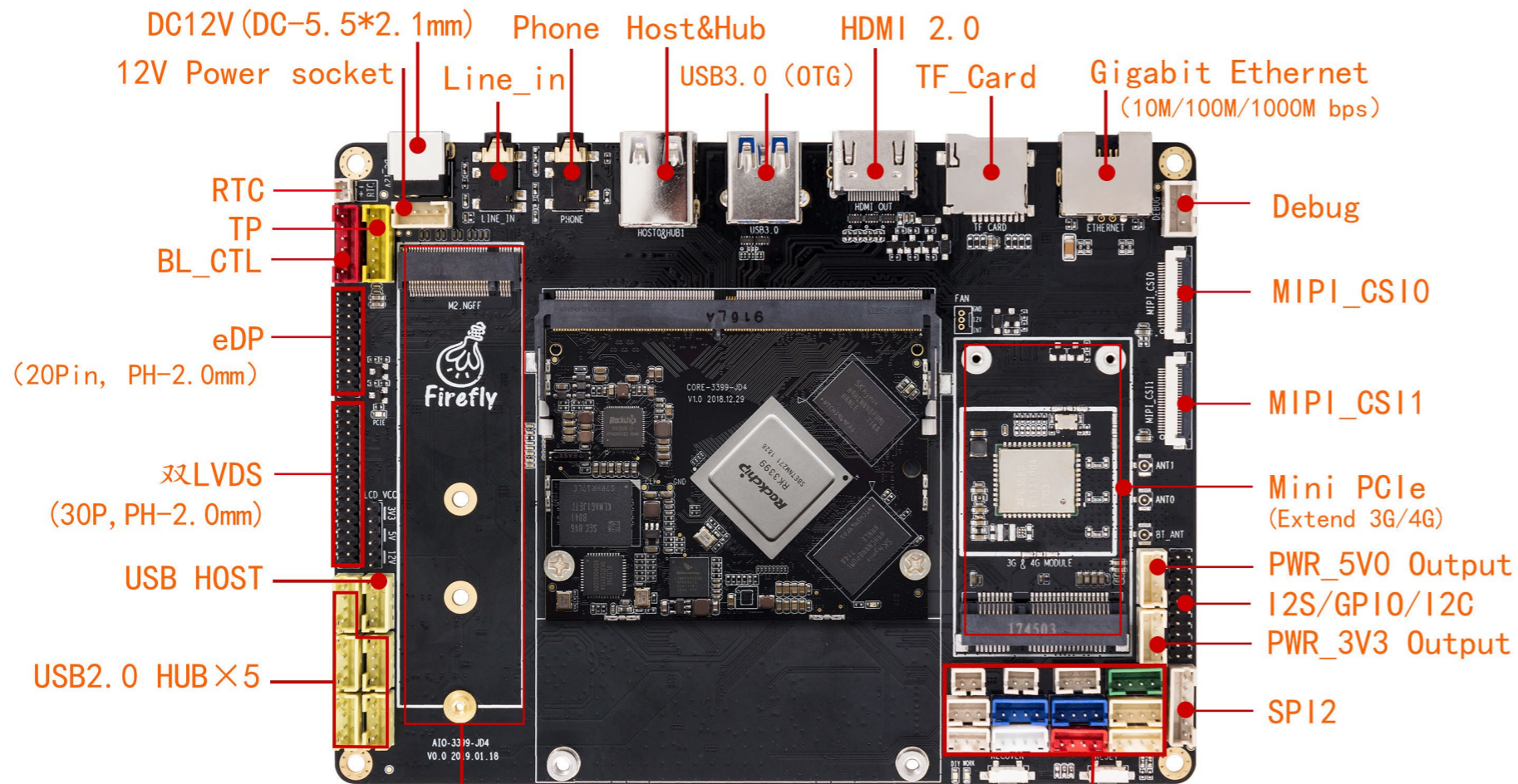
Core board Interface description



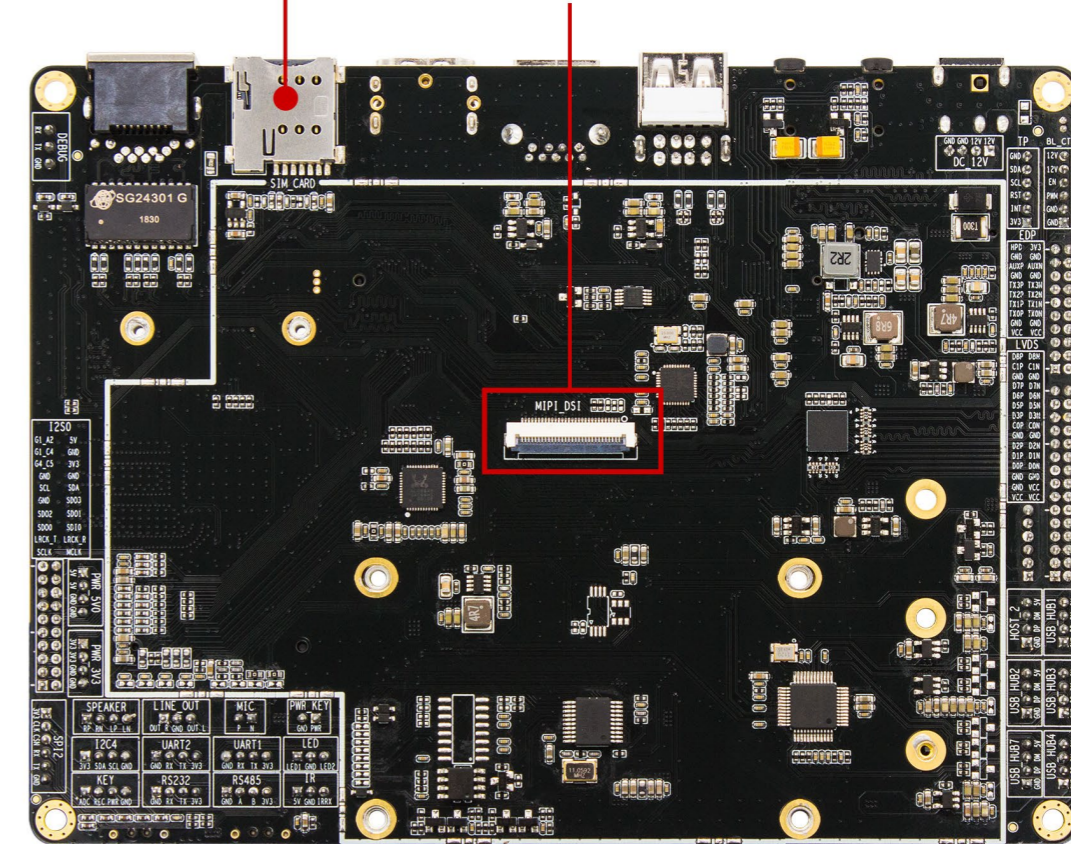
Core board Dimension



Mainboard Interface description

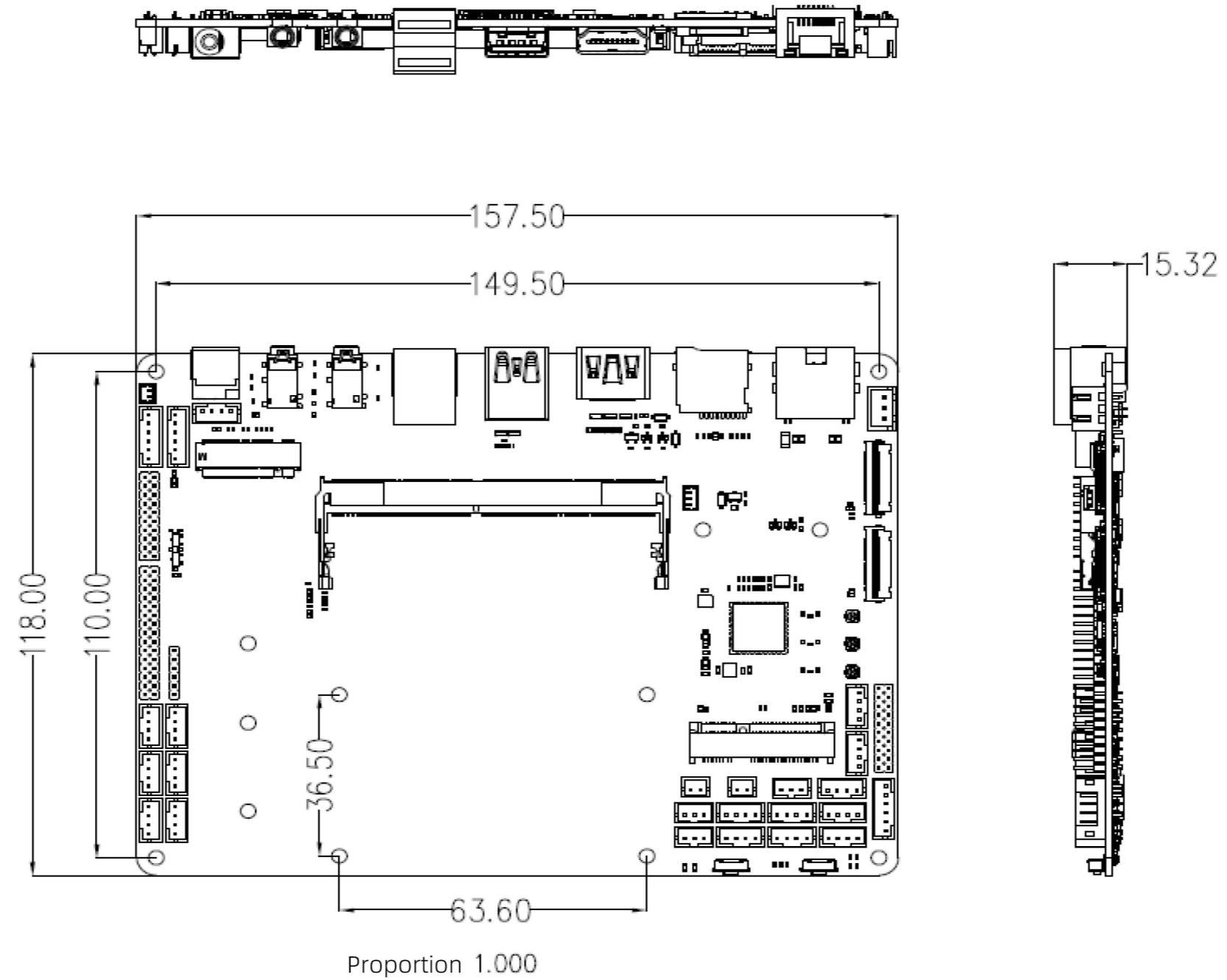


SIM Card (MicroSIM) MIPI-DSI



PWR_KEY	MIC	Line_Out	Speaker
LED	UART1	UART2	I2C4
IR	RS485	RS232	KEY (ADC/REC/PWR/GND)

Mainboard Dimension





Interface definition

Notes1:
 Pin type: I = input, O = output, I/O = input/output (bidirectional) ,G= Ground , P = power supply , DOWN = Internal pull down , UP = Internal pull UP

Part A	pin	Core board pin definition	Pin type	I/O Pull	Function for Floor(MB-RK3399-JD4)	Default function description	IO Power domain	RK3399 Pin Number	RK3399 Pin Name
	1	GND_1	G		GND	GND			
	3	GPIO2_D3/SDIO0_PWREN_D_1.8V	I/O	DOWN	WORK_LED	System LED control 1:Enable 0:Disable	1.8V	AD9	GPIO2_D3/SDIO0_PWREN
	5	GPIO0_B5/TCPD_VBUS_FDIS/TCPD_VBUS_SOURCE3_D_1.8V	I/O	DOWN	DIY_LED	Diy led control 1:Enable 0:Disable	1.8V	P24	GPIO0_B5/TCPD_VBUS_FDIS/TCPD_VBUS_SOURCE3
	7	GPIO1_A0/ISPO_SHUTTER_EN/ISP1_SHUTTER_EN/TCPD_VBUS_SINK_EN_D_3.0V	I/O	DOWN	VCC5V0_HOST_EN	Host usb 5v power enable 1:Enable 0:Disable Core board internal series resistance 33R	3.0V	R25	GPIO1_A0/ISPO_SHUTTER_EN/ISP1_SHUTTER_EN/TCPD_VBUS_SINK_EN
	9	GPIO1_A3/ISPO_FLASHTRIGOUT/ISP1_FLASHTRIGOUT_D_3.0V	I/O	DOWN	VCC5V0_TYPEC0_EN	OTG 5v power enable 1:Enable 0:Disable Core board internal series resistance 33R	3.0V	R27	GPIO1_A3/ISPO_FLASHTRIGOUT/ISP1_FLASHTRIGOUT
	11	GPIO1_B5_D_3.0V	I/O	DOWN	LVDS_RESX	LVDS Reset	3.0V	M24	GPIO1_B5
	13	GPIO1_B4/I2C4_SCL_U_3.0V	I/O	UP	I2C4_SCL	I2C clock , Core board interiorl pull up Resistor 2.2K	3.0V	P30	GPIO1_B4/I2C4_SCL
	15	GPIO1_B3/I2C4_SDA_U_3.0V	I/O	UP	I2C4_SDA	I2C data , Core board interiorl pull up Resistor 2.2K	3.0V	P31	GPIO1_B3/I2C4_SDA
	17	GPIO1_A4/ISPO_PRELIGHT_TRIG/ISP1_PRELIGHT_TRIG_D_3.0V	I/O	DOWN	LCD_EN	LCD enable , Core board internal series resistance 33R	3.0V	R28	GPIO1_A4/ISPO_PRELIGHT_TRIG/ISP1_PRELIGHT_TRIG



Interface definition

19	GPIO1_A1/ISPO_SHUTTER_TRIG/ISP1_SHUTTER_TRIG/TCPD_CC0_VCONN_EN_D_3.0V	I/O	DOWN	CAM_PWR	Camera power enable , Core board internal series resistance 33R	3.0V	T31	GPIO1_A1/ISPO_SHUTTER_TRIG/ISP1_SHUTTER_TRIG/TCPD_CC0_VCONN_EN
21	GPIO0_B4/TCPD_VBUS_BDIS_D_1.8V	I/O	DOWN	MIPI_PWR_EN	MIPI power enable	1.8V	V26	GPIO0_B4/TCPD_VBUS_BDIS
23	GPIO4_C5/SPDIF_TX_D_3.0V	I/O	DOWN	GPIO4_C5	GPIO	3.0V	AK1	GPIO4_C5/SPDIF_TX
25	GPIO0_B0/SDMMC0_WRPT/TEST_CLKOUT2_U_1.8V	I/O	UP	MIPI_RST	Mipi reset	1.8V	U28	GPIO0_B0/SDMMC0_WRPT/TEST_CLKOUT2
27	GPIO0_A1/DDRIO_PWROFF/TCPD_CCDB_EN_U_1.8V	I/O	UP	LCD_BL_EN	LCD panel power enable	1.8V	R29	GPIO0_A1/DDRIO_PWROFF/TCPD_CCDB_EN
29	GPIO2_B4/SPI2_CSNO_U_3.0V	I/O	UP	GPIO2_B4/SPI2_CSNO	SPI bus port 2	3.0V	F31	GPIO2_B4/SPI2_CSNO
31	GPIO2_B2/SPI2_TXD/CIF_CLKIN/I2C6_SCL_U_3.0V	I/O	UP	GPIO2_B2/SPI2_TXD/I2C6_SCL	SPI bus port 2, I2C serial port 6,need external pull-up	3.0V	H24	GPIO2_B2/SPI2_TXD/CIF_CLKIN/I2C6_SCL
33	GPIO2_B1/SPI2_RXD/CIF_HREF/I2C6_SDA_U_3.0V	I/O	UP	GPIO2_B1/SPI2_RXD/I2C6_SDA	SPI bus port 2, I2C serial port 6,need external pull-up	3.0V	F30	GPIO2_B1/SPI2_RXD/CIF_HREF/I2C6_SDA
35	GPIO2_B3/SPI2_CLK/VOP_DEN/CIF_CLKOUTA_U_3.0V	I/O	UP	GPIO2_B3/SPI2_CLK	GPIO / SP2 CLK / MIPI CLK	3.0V	H31	GPIO2_B3/SPI2_CLK/VOP_DEN/CIF_CLKOUTA
37	GPIO1_C7/TCPD_VBUS_SOURCE1_D_3.0V	I/O	DOWN	TP_RST	TP Reset(Active Low)	3.0V	M31	GPIO1_C7/TCPD_VBUS_SOURCE1
39	GPIO1_C4/I2C8_SDA_U_3.0V	I/O	UP	GPIO1_C4	GPIO	3.0V	M29	GPIO1_C4/I2C8_SDA
41	GPIO1_C1/SPI3_CLK_D_3.0V	I/O	DOWN	GPIO1_C1	GPIO	3.0V	M27	GPIO1_C1/SPI3_CLK
43	GND_4	G		GND	GND			
45	MIPI_TX1/RX1_D0P	I/O		MIPI_TX1/RX1_D0P	MIPI-DSI1/CSI1 differential lane 0 positive	1.8V	AK6	MIPI_TX1/RX1_D0P



Interface definition

42	GPIO0_B2_D_1.8V	I/O	DOWN	WIFI_REG_ON_H	WIFI module power enable(active high)	1.8V	W31	GPIO0_B2
44	GPIO0_A3/SDIO0_WRPT_D_1.8V	I/O	DOWN	WIFI_HOST_WAKE_L	WIFI module wake up AP(Wifi-->RK3399)	1.8V	V31	GPIO0_A3/SDIO0_WRPT
46	GPIO2_C6/SDIO0_D2/SPI5_CLK_U_1.8V	I/O	UP	SDIO0_D2	SDIO0 data2 , for WIFI module	1.8V	AG7	GPIO2_C6/SDIO0_D2/SPI5_CLK
48	GPIO2_C7/SDIO0_D3/SPI5_CSN0_U_1.8V	I/O	UP	SDIO0_D3	SDIO0 data3 , for WIFI module	1.8V	AE8	GPIO2_C7/SDIO0_D3/SPI5_CSN0
50	GPIO2_D0/SDIO0_CMD_U_1.8V	I/O	UP	SDIO0_CMD	SDIO0 command output , for WIFI module	1.8V	AH6	GPIO2_D0/SDIO0_CMD
52	GPIO2_D1/SDIO0_CLKOUT/TEST_CLKOUT_1_U_1.8V	I/O	UP	SDIO0_CLK	SDIO0 clock output, for WIFI module	1.8V	AF7	GPIO2_D1/SDIO0_CLKOUT/TEST_CLKOUT1
54	GPIO2_C4/SDIO0_D0/SPI5_RXD_U_1.8V	I/O	UP	SDIO0_D0	SDIO0 data0 , for WIFI module	1.8V	AD8	GPIO2_C4/SDIO0_D0/SPI5_RXD
56	GPIO2_C5/SDIO0_D1/SPI5_TXD_U_1.8V	I/O	UP	SDIO0_D1	SDIO0 data1, for WIFI module	1.8V	AK5	
58	GND_7	G		GND	GND			
60	RTC_CLKO_WIFI			RTC_CLKO_WIFI	32.768K clock output to WIFI Core board interiorl pull up Resistor 10K	1.8V		
62	GPIO0_B1/PMUIO2_VOLSEL_D_1.8V	I/O	DOWN	BT_REG_ON_H	BT module power enable 1:Enable 0:Disable Core board interiorl pull up Resistor 10K	1.8V	V30	GPIO0_B1/PMUIO2_VOLSEL
64	GPIO2_C0/UART0_RX_U_1.8V	I/O	UP	UART0_RXD	UART0 RX, for BT module	1.8V	AE9	GPIO2_C0/UART0_RX
66	GPIO2_C1/UART0_TX_U_1.8V	I/O	UP	UART0_TXD	UART0 RX, for BT module	1.8V	AH8	GPIO2_C1/UART0_TX
68	GPIO2_C2/UART0_CTSN_U_1.8V	I/O	UP	UART0_CTS	UART0 CTS, for BT module(hardware flow control)	1.8V	AG8	GPIO2_C2/UART0_CTSN
70	GPIO2_C3/UART0_RTSN_U_1.8V	I/O	UP	UART0_RTS	UART0 RTS, for BT module(hardware flow control)	1.8V	AL5	GPIO2_C3/UART0_RTSN



Interface definition

47	MIPI_TX1/RX1_D0N	I/O		MIPI_TX1/RX1_D0N	MIPI-DSI1/CSI1 differential lane 0 negative	1.8V	AL6	MIPI_TX1/RX1_D0N
49	MIPI_TX1/RX1_D1P	I/O		MIPI_TX1/RX1_D1P	MIPI-DSI1/CSI1 differential lane 1 positive	1.8V	AK7	MIPI_TX1/RX1_D1P
51	MIPI_TX1/RX1_D1N	I/O		MIPI_TX1/RX1_D1N	MIPI-DSI1/CSI1 differential lane 1 negative	1.8V	AL7	MIPI_TX1/RX1_D1N
53	MIPI_TX1/RX1_CLKP	I/O		MIPI_TX1/RX1_CLKP	MIPI-DSI1/CSI1 differential clock lane positive	1.8V	AK8	MIPI_TX1/RX1_CLKP
55	MIPI_TX1/RX1_CLKN	I/O		MIPI_TX1/RX1_CLKN	MIPI-DSI1/CSI1 differential clock lane negative	1.8V	AL8	MIPI_TX1/RX1_CLKN
57	MIPI_TX1/RX1_D2P	I/O		MIPI_TX1/RX1_D2P	MIPI-DSI1/CSI1 differential lane 2 positive	1.8V	AK9	MIPI_TX1/RX1_D2P
59	MIPI_TX1/RX1_D2N	I/O		MIPI_TX1/RX1_D2N	MIPI-DSI1/CSI1 differential lane 2 negative	1.8V	AL9	MIPI_TX1/RX1_D2N
61	MIPI_TX1/RX1_D3P	I/O		MIPI_TX1/RX1_D3P	MIPI-DSI1/CSI1 differential lane 3 positive	1.8V	AK10	MIPI_TX1/RX1_D3P
63	MIPI_TX1/RX1_D3N	I/O		MIPI_TX1/RX1_D3N	MIPI-DSI1/CSI1 differential lane 3 negative	1.8V	AL10	MIPI_TX1/RX1_D3N
65	GND_6	G		GND	GND			
67	MIPI_RX0_D3P	I		MIPI_RX0_D3P	MIPI-CSIO differential lane 3 positive	1.8V	AK11	MIPI_RX0_D3P
69	MIPI_RX0_D3N	I		MIPI_RX0_D3N	MIPI-CSIO differential lane 3 negative	1.8V	AL11	MIPI_RX0_D3N



Interface definition

71	MIPI_RX0_D2P	I		MIPI_RX0_D2P	MIPI-CSIO differential lane 2 positive	1.8V	AK12	MIPI_RX0_D2P
73	MIPI_RX0_D2N	I		MIPI_RX0_D2N	MIPI-CSIO differential lane 2 negative	1.8V	AL12	MIPI_RX0_D2N
75	MIPI_RX0_CLKP	I		MIPI_RX0_CLKP	MIPI-CSIO differential clock lane positive	1.8V	AK13	MIPI_RX0_CLKP
77	MIPI_RX0_CLKN	I		MIPI_RX0_CLKN	MIPI-CSIO differential clock lane negative	1.8V	AL13	MIPI_RX0_CLKN
79	MIPI_RX0_D1P	I		MIPI_RX0_D1P	MIPI-CSIO differential lane 1 positive	1.8V	AK14	MIPI_RX0_D1P
81	MIPI_RX0_D1N	I		MIPI_RX0_D1N	MIPI-CSIO differential lane 1 negative	1.8V	AL14	MIPI_RX0_D1N
83	MIPI_RX0_D0P	I		MIPI_RX0_D0P	MIPI-CSIO differential lane 0 positive	1.8V	AK15	MIPI_RX0_D0P
85	MIPI_RX0_D0N	I		MIPI_RX0_D0N	MIPI-CSIO differential lane 0 negative	1.8V	AL15	MIPI_RX0_D0N
87	GND_9	G		GND	GND			
89	HDMI_HPD	I		HDMI_HPD	HDMI Hot Plug Detection interrupt with 5V tolerance	HDMI_DET_IN	AE15	HDMI_HPD
91	GPIO4_C0/I2C3_SDA/UART2B_RX_U_3.0V	I/O	UP	I2C3_SDA_HDMI	I2C serial port 3,for HDMI, need external pull-up	3.0V	AG6	GPIO4_C0/I2C3_SDA/UART2B_RX
93	GPIO4_C1/I2C3_SCL/UART2B_TX_U_3.0V	I/O	UP	I2C3_SCL_HDMI	I2C serial port 3,for HDMI, need external pull-up	3.0V	AL2	GPIO4_C1/I2C3_SCL/UART2B_TX
95	GPIO4_C7/HDMI_CECINOUT/EDP_HOTPLUG_U_3.0V	I/O	UP	HDMI_CEC	HDMI CEC communication	3.0V	AD7	GPIO4_C7/HDMI_CECINOUT/EDP_HOTPLUG



Interface definition

97	GND_11	G		GND	GND			
99	HDMI_TCN	O		HDMI_TXCN	HDMI differential pixel clock negative	1.8V	AL16	HDMI_TCN
101	HDMI_TCP	O		HDMI_TXCP	HDMI differential pixel clock positive	1.8V	AK16	HDMI_TCP
103	HDMI_TX0N	O		HDMI_TX0N	HDMI channel 0 differential serial data negative	1.8V	AL17	HDMI_TX0N
105	HDMI_TX0P	O		HDMI_TX0P	HDMI channel 0 differential serial data positive	1.8V	AK17	HDMI_TX0P
107	HDMI_TX1N	O		HDMI_TX1N	HDMI channel 1 differential serial data negative	1.8V	AL18	HDMI_TX1N
109	HDMI_TX1P	O		HDMI_TX1P	HDMI channel 1 differential serial data positive	1.8V	AK18	HDMI_TX1P
111	HDMI_TX2N	O		HDMI_TX2N	HDMI channel 2 differential serial data negative	1.8V	AL19	HDMI_TX2N
113	HDMI_TX2P	O		HDMI_TX2P	HDMI channel 2 differential serial data positive	1.8V	AK19	HDMI_TX2P
115	GND_13	G		GND	GND			
117	TYPECO_AUXP_PD_PU			TYPECO_SBU1_DC	TYPECO AUX pull-up/pull-down polarity reversal pins.		AH17	TYPECO_AUXP_PD_PU
119	TYPECO_AUXM_PU_PD			TYPECO_SBU2_DC	TYPECO AUX pull-up/pull-down polarity reversal pins.		AG17	TYPECO_AUXM_PU_PD
121	TYPECO_AUXM	I/O		TYPECO_SBU2	TYPECO AUX differential TX/RX serial data		AL20	TYPECO_AUXM
123	TYPECO_AUXP	I/O		TYPECO_SBU1	TYPECO AUX differential TX/RX serial data		AK20	TYPECO_AUXP



Interface definition

125	TYPECO_RX1M	I		TYPECO_RX1N	TYPECO negative half of first Super Speed RX differential pair		AL21	TYPECO_RX1M
127	TYPECO_RX1P	I		TYPECO_RX1P	TYPECO positive half of first Super Speed RX differential pair		AK21	TYPECO_RX1P
129	TYPECO_TX1P	O		TYPECO_TX1P	TYPECO positive half of first Super Speed TX differential pair.		AL22	TYPECO_TX1P
131	TYPECO_TX1M	O		TYPECO_TX1N	TYPECO negative half of first Super Speed TX differential pair		AK22	TYPECO_TX1M
133	TYPECO_DP	A		TYPECO_DP	TYPECO Data Plus port(for system update)		AG23	TYPECO_DP
135	TYPECO_DM	A		TYPECO_DM	TYPECO Data Minus port(for system update)		AH23	TYPECO_DN
137	TYPECO_RX2M	I		TYPECO_RX2N	TYPECO negative half of second SuperSpeedRX differential pair.		AL23	TYPECO_RX2M
139	TYPECO_RX2P	I		TYPECO_RX2P	TYPECO positive half of second SuperSpeedRX differential pair.		AK23	TYPECO_RX2P
141	TYPECO_TX2P	O		TYPECO_TX2P	TYPECO positive half of second SuperSpeedTX differential pair.		AL24	TYPECO_TX2P
143	TYPECO_TX2M	O		TYPECO_TX2N	TYPECO negative half of second SuperSpeedTX differential pair.		AK24	TYPECO_TX2M
145	TYPECO_U2VBUSDET	I		TYPECO_U2VBUSDET	TYPECO connected / vbus power detect for USB2.0		AK30	TYPECO_U2VBUSDET
147	GND_14	G		GND	GND			
149	PCIE_RX3_P	I		PCIE_RX3_P	PCIE differential lane 3 positive input	1.8V	AF27	PCIE_RX3_P



Interface definition

151	PCIE_RX3_N	I		PCIE_RX3_N	PCIE differential lane 3 negative input	1.8V	AF28	PCIE_RX3_N
153	PCIE_TX3_P	O		PCIE_TX3P	PCIE differential lane 3 positive output	1.8V	AD27	PCIE_TX3_P
155	PCIE_TX3_N	O		PCIE_TX3N	PCIE differential lane 3 negative output	1.8V	AD28	PCIE_TX3_N
157	PCIE_RX2_P	I		PCIE_RX2_P	PCIE differential lane 2 positive input	1.8V	AC27	PCIE_RX2_P
159	PCIE_RX2_N	I		PCIE_RX2_N	PCIE differential lane 2 negative input	1.8V	AC28	PCIE_RX2_N
161	PCIE_TX2_P	O		PCIE_TX2P	PCIE differential lane 2 positive output	1.8V	AA27	PCIE_TX2_P
163	PCIE_TX2_N	O		PCIE_TX2N	PCIE differential lane 2 negative output	1.8V	AA28	PCIE_TX2_N
165	PCIE_RX1_P	I		PCIE_RX1_P	PCIE differential lane 1 positive input	1.8V	AH30	PCIE_RX1_P
167	PCIE_RX1_N	I		PCIE_RX1_N	PCIE differential lane 1 negative input	1.8V	AH31	PCIE_RX1_N
169	PCIE_TX1_P	O		PCIE_TX1P	PCIE differential lane 1 positive output	1.8V	AG30	PCIE_TX1_P
171	PCIE_TX1_N	O		PCIE_TX1N	PCIE differential lane 1 negative output	1.8V	AG31	PCIE_TX1_N
173	PCIE_RX0_P	I		PCIE_RX0_P	PCIE differential lane 0 positive input	1.8V	AF30	PCIE_RX0_P
175	PCIE_RX0_N	I		PCIE_RX0_N	PCIE differential lane 0 negative input	1.8V	AF31	PCIE_RX0_N



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177	PCIE_TX0_P	O		PCIE_TX0P	PCIE differential lane 0 positive output	1.8V	AE30	PCIE_TX0_P
179	PCIE_TX0_N	O		PCIE_TX0N	PCIE differential lane 0 negative output	1.8V	AE31	PCIE_TX0_N
181	PCIE_RCLK_100M_N	O		PCIE_REF_CLKN	PCIE 100MHz reference clock as input to PLL	1.8V	AD30	PCIE_RCLK_100M_N
183	PCIE_RCLK_100M_P	O		PCIE_REF_CLKP	PCIE 100MHz reference clock as input to PLL	1.8V	AD31	PCIE_RCLK_100M_P
185	GND_18	G		GND	GND			
187	HOST0_DP			HOST0_DP	USB HOST0 Data Plus port		AB30	USB0_DP
189	HOST0_DM			HOST0_DM	USB HOST0 Data Minus port		AB31	USB0_DN
191	GND_19	G		GND	GND			
193	HOST1_DP			HOST1_DP	USB HOST1 Data Plus port		AA30	USB1_DP
195	HOST1_DM			HOST1_DM	USB HOST1 Data Minus port		AA31	USB1_DN
197	GND_20	G		GND	GND			
199	EDP_TX3N	O		EDP_TX3N	eDP differential lane 3 negative output	1.8V	D31	EDP_TX3N
201	EDP_TX3P	O		EDP_TX3P	eDP differential lane 3 positive output	1.8V	D30	EDP_TX3P



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203	EDP_TX2N	O		EDP_TX2N	eDP differential lane 2 negative output	1.8V	C31	EDP_TX2N
205	EDP_TX2P	O		EDP_TX2P	eDP differential lane 2 positive output	1.8V	C30	EDP_TX2P
207	EDP_TX1N	O		EDP_TX1N	eDP differential lane 1 negative output	1.8V	A30	EDP_TX1N
209	EDP_TX1P	O		EDP_TX1P	eDP differential lane 1 positive output	1.8V	B30	EDP_TX1P
211	EDP_TX0N	O		EDP_TX0N	eDP differential lane 0 negative output	1.8V	A29	EDP_TX0N
213	EDP_TX0P	O		EDP_TX0P	eDP differential lane 0 positive output	1.8V	B29	EDP_TX0P
215	EDP_AUXN	I/O		EDP_AUXN	eDP differential AUX channel positive output	1.8V	A28	EDP_AUXN
217	EDP_AUXP	I/O		EDP_AUXP	eDP differential AUX channel negative output	1.8V	B28	EDP_AUXP
219	GND_25	G		GND	GND			
221	POWER_ON			POWER_ON	Power on Signal Input, External connection Power key , active low	To POWER_KEY		
223	PMIC_VDC	P		VCC_5V_S	Input Voltage 3.3V-5.5V, Rated input current 50mA	5V		
225	VDDIO_WL_1	P		VDDIO_WL	1.8V output,Max current 1A to WIFI_IO	1.8V		
227	VCC_3V3_S0	P		VCC_LAN	3.3V output,Max current 300mA TO LAN	3.3V		
229	VCCA1V8_CODEEC_1	P		VCCA1V8_CODEEC	1.8V output,Max current 150mA to Codec	1.8V		
231	VCCA3V0_CODEEC_1	P		VCCA3V0_CODEEC	3.0V output,Max current 300mA to Codec	3.0V		
233	VCC_5V_S	P		VCC_5V_S	5.0V input, Max current 50mA	5.0V		
235	VCC3V3_SYS_1	P		VCC3V3_SYS	3.3V output,Max current 1A	3.3V		



Interface definition

	237	NC_2							
	239	NC_4							
	241	NC_6							
	243	GND_28	G		GND	Power ground			
	245	GND_30	G		GND	Power ground			
	247	GND_32	G		GND	Power ground			
	249	GND_34	G		GND	Power ground			
	251	VCC_SYS_1	P		VCC5V0_SYS	Input Voltage 4.8V-5.5V	5.0V		
	253	VCC_SYS_3	P		VCC5V0_SYS	Input Voltage 4.8V-5.5V	5.0V		
	255	VCC_SYS_5	P		VCC5V0_SYS	Input Voltage 4.8V-5.5V	5.0V		
	257	VCC_SYS_7	P		VCC5V0_SYS	Input Voltage 4.8V-5.5V	5.0V		
	259	VCC_SYS_9	P		VCC5V0_SYS	Input Voltage 4.8V-5.5V	5.0V		
Part B	pin	Core board pin definition	Pad type	IO Pull	Function for Floor(MB-JD4-RK3399&3399PRO)	Default function description	IO Power domain	RK3399 Pin Number	RK3399 Pin Name
	2	GND_2	G		GND	GND			
	4	GPIO3_D0/I2S0_SCLK_D_1.8V	I/O	DOWN	I2S0_SCLK	I2S 0 serial clock , for audio codec	1.8V	AG3	GPIO3_D0/I2S0_SCLK
	6	GPIO3_D1/I2S0_LRCK_RX_D_1.8V	I/O	DOWN	I2S0_LRCK_RX	I2S 0 port , for audio codec	1.8V	AF4	GPIO3_D1/I2S0_LRCK_RX
	8	GPIO3_D2/I2S0_LRCK_TX_D_1.8V	I/O	DOWN	I2S0_LRCK_TX	I2S 0 port , for audio codec	1.8V	AJ2	GPIO3_D2/I2S0_LRCK_TX



Interface definition

10	GPIO3_D3/I2S0_SDI0_D_1.8V	I/O	DOWN	I2S0_SDI0	I2S serial data input 0	1.8V	Y7	GPIO3_D3/I2S0_SDI0
12	GPIO3_D7/I2S0_SDO0_D_1.8V	I/O	DOWN	I2S0_SDO0	I2S serial data output 0	1.8V	AH1	GPIO3_D7/I2S0_SDO0
14	GPIO3_D4/I2S0_SDI1SDO3_D_1.8V	I/O	DOWN	I2S0_SDO3	I2S serial data output 3	1.8V	AE5	GPIO3_D4/I2S0_SDI1SDO3
16	GPIO3_D5/I2S0_SDI2SDO2_D_1.8V	I/O	DOWN	I2S0_SDO2	I2S serial data output 2	1.8V	AA6	GPIO3_D5/I2S0_SDI2SDO2
18	GPIO3_D6/I2S0_SDI3SDO1_D_1.8V	I/O	DOWN	I2S0_SDO1	I2S serial data output 1	1.8V	AH2	GPIO3_D6/I2S0_SDI3SDO1
20	GPIO4_A0/I2S_CLK_D_1.8V	I/O	DOWN	I2S_CLK	I2S MCLK, for both I2S0 and I2S1	1.8V	AC7	GPIO4_A0/I2S_CLK
22	GPIO4_A1/I2C1_SDA_U_1.8V	I/O	UP	I2C1_SDA	I2C serial port 1,for Audio, Core board interiorl pull up Resistor 2.2K	1.8V	AG1	GPIO4_A1/I2C1_SDA
24	GPIO4_A2/I2C1_SCL_U_1.8V	I/O	UP	I2C1_SCL	I2C serial port 1,for Audio, Core board interiorl pull up Resistor 2.2K	1.8V	Y6	GPIO4_A2/I2C1_SCL
26	GND_3	G		GND	GND			
28	GPIO3_C0/MAC_COL/UART3_CTSN/SPDIF_TX_U_3.3V	I/O	UP	EAR_CTL	EARPHONE out EN (Active high)	3.3V	D27	GPIO3_C0/MAC_COL/UART3_CTSN/SPDIF_TX
30	GPIO4_A3/I2S1_SCLK_D_1.8V	I/O	DOWN	I2S1_SCLK	I2S 1 port,	1.8V	AF3	GPIO4_A3/I2S1_SCLK
32	GPIO4_A4/I2S1_LRCK_RX_D_1.8V	I/O	DOWN	I2S1_LRCK_RX	I2S 1 port,	1.8V	AA7	GPIO4_A4/I2S1_LRCK_RX
34	GPIO4_A5/I2S1_LRCK_TX_D_1.8V	I/O	DOWN	I2S1_LRCK_TX	I2S 1 port,	1.8V	AJ1	GPIO4_A5/I2S1_LRCK_TX
36	GPIO4_A6/I2S1_SDI0_D_1.8V	I/O	DOWN	I2S1_SDI0	I2S 1 port,	1.8V	AD6	GPIO4_A6/I2S1_SDI0
38	GPIO4_A7/I2S1_SDO0_D_1.8V	I/O	DOWN	I2S1_SDO0	I2S 1 port,	1.8V	AC6	GPIO4_A7/I2S1_SDO0
40	GND_5	G		GND	GND			



Interface definition

72	GPIO2_D2/SDIO0_DET/PCIE_CLKREQN_U_1.8V	I/O	UP	BT_WAKE_L	AP wake up BT module	1.8V	AL4	GPIO2_D2/SDIO0_DET/PCIE_CLKREQN
74	GPIO0_A4/SDIO0_INTN_D_1.8V	I/O	DOWN	BT_HOST_WAKE_L	BT module wake up AP	1.8V	AA25	GPIO0_A4/SDIO0_INTN
76	GND_8	G		GND	GND			
78	GPIO2_D4/SDIO0_BKPWR_D_1.8V	I/O	DOWN	GPIO2_D4/3G_PWR_EN	3G Power_EN (active high)	1.8V	AF8	GPIO2_D4/SDIO0_BKPWR
80	GPIO4_D4_D_3.0V	I/O	DOWN	TP_INT1	Touch panel interrupt input 1	3.0V	AH5	GPIO4_D4
82	GPIO1_B1/SPI1_CLK/PMCU_JTAG_TCK_U_3.0V	I/O	UP	SPI1_CLK/GPIO1_B1_u	SPI bus port 1	3.0V	P28	GPIO1_B1/SPI1_CLK/PMCU_JTAG_TCK
84	GPIO1_B2/SPI1_CSn0/PMCU_JTAG_TMS_U_3.0V	I/O	UP	SPI1_CSn0/GPIO1_B2_u	SPI bus port 1	3.0V	P29	GPIO1_B2/SPI1_CSn0/PMCU_JTAG_TMS
86	GPIO1_B0/SPI1_TXD/UART4_TX_U_3.0V	I/O	UP	SPI1_TXD/UART4_TX/GPIO1_B0_u	SPI bus port 1	3.0V	R31	GPIO1_B0/SPI1_TXD/UART4_TX
88	GPIO1_A7/SPI1_RXD/UART4_RX_U_3.0V	I/O	UP	SPI1_RXD/UART4_RX/GPIO1_A7_u	SPI bus port 1	3.0V	P27	GPIO1_A7/SPI1_RXD/UART4_RX
90	GPIO1_C6/TCPD_VBUS_SOURCE0_D_3.0V	I/O	DOWN	SDMMC0_PWR	TF_Card Power_EN (active high)	3.0V	L25	GPIO1_C6/TCPD_VBUS_SOURCE0
92	GPIO1_D0/TCPD_VBUS_SOURCE2_D_3.0V	I/O	DOWN	GPIO1_D0_d	GPIO	3.0V	L26	GPIO1_D0/TCPD_VBUS_SOURCE2
94	GPIO4_C2/PWM0/VOPO_PWM/VOP1_PWM_D_3.0V	I/O	DOWN	LCD_BL_PWM0	PWM0 output:EDP backlight control(external)	3.0V	AF5	GPIO4_C2/PWM0/VOPO_PWM/VOP1_PWM
96	GPIO4_C6/PWM1_D_3.0V	I/O	DOWN	LCD_BL_PWM1	PWM1 output:MIPI backlight control	3.0V	AL3	GPIO4_C6/PWM1
98	GPIO0_A6/PWM3A_IR_D_1.8V	I/O	DOWN	IR_INT	IR receiver input	1.8V	P25	GPIO0_A6/PWM3A_IR
100	GPIO4_C3/UART2C_RX_U_3.0V	I/O	UP	UART2DBG_RX	Uart2 serial port data input, for AP debug	3.0V	AK2	GPIO4_C3/UART2C_RX



Interface definition

102	GPIO4_C4/UART2C_TX_U_3.0V	I/O	UP	UART2DBG_TX	Uart2 serial port data output ,for AP debug	3.0V	AJ4	GPIO4_C4/UART2C_TX
104	GPIO2_A0/VOP_D0/CIF_D0/I2C2_SDA_U_3.0V	I/O	UP	GPIO2_B0/MIPI_PDN0_H	MIPI Camera0 enable	3.0V	G31	GPIO2_A0/VOP_D0/CIF_D0/I2C2_SDA
106	GPIO2_A1/VOP_D1/CIF_D1/I2C2_SCL_U_3.0V	I/O	UP	GPIO2_A1/MIPI_PDN1_H	MIPI Camera1 enable	3.0V	H25	GPIO2_A1/VOP_D1/CIF_D1/I2C2_SCL
108	GPIO2_A7/VOP_D7/CIF_D7/I2C7_SDA_U_3.0V	I/O	UP	EDP_HPDP	EDP_DET Input	3.0V	G30	GPIO2_A7/VOP_D7/CIF_D7/I2C7_SDA
110	GPIO2_B0/VOP_CLK/CIF_VSYNC/I2C7_SCL_U_3.0V	I/O	UP	WK2124_INT	WK2124_INT Input	3.0V	H28	GPIO2_B0/VOP_CLK/CIF_VSYNC/I2C7_SCL
112	GPIO2_A2/VOP_D2/CIF_D2_D_3.0V	I/O	DOWN	TP_INT	TP_INT Input	3.0V	H30	GPIO2_A2/VOP_D2/CIF_D2
114	GPIO2_A3/VOP_D3/CIF_D3_D_3.0V	I/O	DOWN	AT18_RST	AT18_Reset Output (active low)	3.0V	F28	GPIO2_A3/VOP_D3/CIF_D3
116	GPIO1_A2/ISPO_FLASHTRIGIN/ISP1_FLASHTRIGIN/TCPD_CC1_VCONN_EN_D_3.0V	I/O	DOWN	WK2124_RST	WK2124_Reset Output (active low)	3.0V	R26	GPIO1_A2/ISPO_FLASHTRIGIN/ISP1_FLASHTRIGIN/TCPD_CC1_VCONN_EN
118	GPIO4_D5_D_3.0V	I/O	DOWN	LCD_RST	LCD panel reset output (active low)	3.0V	AJ3	GPIO4_D5
120	GPIO4_D6_D_3.0V	I/O	DOWN	PCIE_RST	PCIE_Reset Output (active low)	3.0V	AG4	GPIO4_D6
122	GPIO4_D3_D_3.0	I/O	DOWN	GPIO4_D3_d	GPIO	3.0V	AK3	GPIO4_D3
124	GND_10	G		GND	GND			
126	MIPI_TX0_D3P	O		MIPI_TX0_D3P	MIPI-DSIO differential lane 3 positive	1.8V	AG9	MIPI_TX0_D3P
128	MIPI_TX0_D3N	O		MIPI_TX0_D3N	MIPI-DSIO differential lane 3 negative	1.8V	AH9	MIPI_TX0_D3N
130	MIPI_TX0_D2P	O		MIPI_TX0_D2P	MIPI-DSIO differential lane 2 positive	1.8V	AG11	MIPI_TX0_D2P



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132	MIPI_TX0_D2N	O		MIPI_TX0_D2N	MIPI-DSI0 differential lane 2 negative	1.8V	AH11	MIPI_TX0_D2N
134	MIPI_TX0_CLKP	O		MIPI_TX0_CLKP	MIPI-DSI0 differential clock lane positive	1.8V	AG12	MIPI_TX0_CLKP
136	MIPI_TX0_CLKN	O		MIPI_TX0_CLKN	MIPI-DSI0 differential clock lane negative	1.8V	AH12	MIPI_TX0_CLKN
138	MIPI_TX0_D1P	O		MIPI_TX0_D1P	MIPI-DSI0 differential lane 1 positive	1.8V	AG14	MIPI_TX0_D1P
140	MIPI_TX0_D1N	O		MIPI_TX0_D1N	MIPI-DSI0 differential lane 1 negativ	1.8V	AH14	MIPI_TX0_D1N
142	MIPI_TX0_D0P	O		MIPI_TX0_D0P	MIPI-DSI0 differential lane 0 positive	1.8V	AG15	MIPI_TX0_D0P
144	MIPI_TX0_D0N	O		MIPI_TX0_D0N	MIPI-DSI0 differential lane 0 negativ	1.8V	AH15	MIPI_TX0_D0N
146	TYPEC1_DM			USB3_DM	TYPEC1 Data Minus por		AH24	TYPEC1_DN
148	TYPEC1_DP			USB3_DP	TYPEC1 Data Plus port		AG24	TYPEC1_DP
150	ADC_IN0	I		ADC_IN0	ADC0 input,Core board interiorl pull up Resistor 10K	1.8V	AG26	ADC_IN0
152	ADC_IN1	I		RECOVER	ADC0(recover_key) input, Core board interiorl pull up Resistor 10K	1.8V	AH26	ADC_IN1
154	ADC_IN2	I		LINE_IN_DET	ADC2 input, Core board interiorl pull up Resistor 10K	1.8V	AG25	ADC_IN2
156	ADC_IN3	I		HP_DET	AD3C input, Core board interiorl pull up Resistor 10K	1.8V	AG28	ADC_IN3
158	GPIO4_D2_D_3.0V	I/O	DOWN	PCIE_WAKE	AP wake up PCIE Output	3.0V	AH3	GPIO4_D2
160	GPIO4_D0/PCIE_CLKREQNB_U_3.0V	I/O	UP	PCIE_CLKREQ	PCIE CLKREQN Output	3.0V	AE6	GPIO4_D0/PCIE_CLKREQNB



Interface definition

162	GPIO4_D1/DP_HOTPLUG_D_3.0V	I/O	DOWN	GPIO4_D1	GPIO	3.0V	AK4	GPIO4_D1/DP_HOTPLUG
164	GND_12	G		GND	GND			
166	GPIO4_B1/SDMMC0_D1/UART2A_TX_U_3.0V	I/O	UP	SDMMC0_D1	SDMMC0 data1 (TF-Card)	Note 2	Y26	GPIO4_B1/SDMMC0_D1/UART2A_TX
168	GPIO4_B0/SDMMC0_D0/UART2A_RX_U_3.0V	I/O	UP	SDMMC0_D0	SDMMC0 data0 (TF-Card)		Y27	GPIO4_B0/SDMMC0_D0/UART2A_RX
170	GPIO4_B2/SDMMC0_D2/APJTAG_TCK_U_3.0V	I/O	UP	SDMMC0_D2	SDMMC0 data2 (TF-Card)		Y28	GPIO4_B2/SDMMC0_D2/APJTAG_TCK
172	GPIO4_B5/SDMMC0_CMD/MCUJTAG_TMS_U_3.0V	I/O	UP	SDMMC0_CMD	SDMMC0 command output (TF-Card)		V25	GPIO4_B5/SDMMC0_CMD/MCUJTAG_TMS
174	GPIO4_B3/SDMMC0_D3/APJTAG_TMS_U_3.0V	I/O	UP	SDMMC0_D3	SDMMC0 data3 (TF-Card)		U27	GPIO4_B3/SDMMC0_D3/APJTAG_TMS
176	GPIO4_B4/SDMMC0_CLKOUT/MUCJTAG_TCK_D_3.0V	I/O	DOWN	SDMMC0_CLK	SDMMC0 clock output (TF-Card) Core board internal series resistance 22R		V29	GPIO4_B4/SDMMC0_CLKOUT/MUCJTAG_TCK
Note 2: Default is 3.0V; SDMMC0 1.8V(SDIO3.0 model)/3.0V(SDIO2.0 model) Auto								
178	GPIO0_A7/SDMMC0_DET_U_1.8V	I/O	UP	SDMMC0_DET	SDMMC0 detect input (active low)	1.8V	V28	GPIO0_A7/SDMMC0_DET
180	GND_16	G		GND	GND			
182	GPIO3_B5/MAC_MDIO/UART1_TX_U_3.3V	I/O	UP	MAC_MDIO	MAC management command and data	3.3V	G26	GPIO3_B5/MAC_MDIO/UART1_TX
184	GPIO3_B0/MAC_MDC/SPI0_CSN1_U_3.3V	I/O	UP	MAC_MDC	MAC management clock	3.3V	E29	GPIO3_B0/MAC_MDC/SPI0_CSN1
186	GPIO3_C1/MAC_TXCLK/UART3_RTSN_U_3.3V	I/O	UP	PHY_TXCLK	MAC transmit clock Core board internal series resistance 22R	3.3V	E28	GPIO3_C1/MAC_TXCLK/UART3_RTSN
188	GPIO3_B6/MAC_RXCLK/UART3_RX_U_3.3V	I/O	UP	MAC_RXCLK	MAC receive clock	3.3V	F25	GPIO3_B6/MAC_RXCLK/UART3_RX
190	GND_21	G		GND	GND			



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192	GPIO3_B3/MAC_CLK/I2C5_SCL_U_3.3V	I/O	UP	MAC_CLK	MAC reference clock output , I2C serial port 5, need external pull-up Core board internal series resistance 22R	3.3V	G24	GPIO3_B3/MAC_CLK/I2C5_SCL
194	GPIO3_A7/MAC_RXD1/SPI0_CSNO_U_3.3V	I/O	UP	MAC_RXD1	MAC receive data	3.3V	F27	GPIO3_A7/MAC_RXD1/SPI0_CSNO
196	GPIO3_A3/MAC_RXD3/SPI4_CSNO_U_3.3V	I/O	UP	MAC_RXD3	MAC receive data	3.3V	E25	GPIO3_A3/MAC_RXD3/SPI4_CSNO
198	GPIO3_A6/MAC_RXD0/SPI0_CLK_U_3.3V	I/O	UP	MAC_RXD0	MAC receive data	3.3V	E26	GPIO3_A6/MAC_RXD0/SPI0_CLK
200	GPIO3_A2/MAC_RXD2/SPI4_CLK_U_3.3V	I/O	UP	MAC_RXD2	MAC receive data	3.3V	E30	GPIO3_A2/MAC_RXD2/SPI4_CLK
202	GPIO3_B1/MAC_RXDV_D_3.3V	I/O	DOWN	MAC_RXDV	MAC receive data valid	3.3V	C27	GPIO3_B1/MAC_RXDV
204	GPIO3_A4/MAC_TXD0/SPI0_RXD_D_3.3V	I/O	DOWN	PHY_TXD0	MAC transmit data Core board internal series resistance 22R	3.3V	D26	GPIO3_A4/MAC_TXD0/SPI0_RXD
206	GPIO3_A0/MAC_TXD2/SPI4_RXD_D_3.3V	I/O	DOWN	PHY_TXD2	MAC transmit data Core board internal series resistance 22R	3.3V	F24	GPIO3_A0/MAC_TXD2/SPI4_RXD
208	GPIO3_A1/MAC_TXD3/SPI4_TXD_D_3.3V	I/O	DOWN	PHY_TXD3	MAC transmit data Core board internal series resistance 22R	3.3V	H23	GPIO3_A1/MAC_TXD3/SPI4_TXD
210	GPIO3_A5/MAC_TXD1/SPI0_TXD_D_3.3V	I/O	DOWN	PHY_TXD1	MAC transmit data Core board internal series resistance 22R	3.3V	G23	GPIO3_A5/MAC_TXD1/SPI0_TXD
212	GPIO3_B4/MAC_TXEN/UART1_RX_U_3.3V	I/O	UP	PHY_TXEN	MAC transmit enable Core board internal series resistance 22R	3.3V	H22	GPIO3_B4/MAC_TXEN/UART1_RX
214	GPIO3_B2/MAC_RXER/I2C5_SDA_U_3.3V	I/O	UP	FAN_CTL	PHY interrupt input, I2C serial port 5, need external pull-up Core board internal series resistance 22R	3.3V	F23	GPIO3_B2/MAC_RXER/I2C5_SDA
216	GPIO3_B7/MAC_CRS/CIF_CLKOUTB/UART3_TX_U_3.3V	I/O	UP	PHY_RST	phy reset output(active low)	3.3V	B27	GPIO3_B7/MAC_CRS/UART3_TX/CIF_CLKOUTB



Interface definition

218	RESET_KEY			RESET_KEY	system reset signal Input, External connection Reset key, active low			
220	PMIC_EXT_EN			PMIC_EXT_EN	External Power enable output, Voltage 5V			
222	GND_26	G		GND	GND			
224	VDDIO_WL_2	P		VDDIO_WL	1.8V output,Max current 1A to WIFI_IO	1.8V_OUT		
226	VCC_3V3_S0_2	P		VCC_LAN	3.3V output,Max current 300mA TO LAN	3.3V_OUT		
228	VCCA1V8_CODEEC_2	P		VCCA1V8_CODEEC	1.8V output,Max current 150mA to Codec	1.8V_OUT		
230	VCCA3V0_CODEEC_2	P		VCCA3V0_CODEEC	3.0V output,Max current 300mA to Codec	3.0V_OUT		
232	VCC_RTC	P		VCC_RTC	5.0V input, Max current 50mA	5.0V_IN		
234	VCC3V3_SYS_2	P		VCC3V3_SYS	3.3V output,Max current 1A	3.3V_OUT		
236	NC_1							
238	NC_3							
240	NC_5							
242	NC_7							
244	GND_27	G		GND	Power ground			
246	GND_29	G		GND	Power ground			
248	GND_31	G		GND	Power ground			
250	GND_33	G		GND	Power ground			



Interface definition

252	VCC_SYS_2	P		VCC5V0_SYS	Input Voltage 4.8V-5.5V	5.0V_IN		
254	VCC_SYS_4	P		VCC5V0_SYS	Input Voltage 4.8V-5.5V	5.0V_IN		
256	VCC_SYS_6	P		VCC5V0_SYS	Input Voltage 4.8V-5.5V	5.0V_IN		
258	VCC_SYS_8	P		VCC5V0_SYS	Input Voltage 4.8V-5.5V	5.0V_IN		
260	VCC_SYS_10	P		VCC5V0_SYS	Input Voltage 4.8V-5.5V	5.0V_IN		



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