

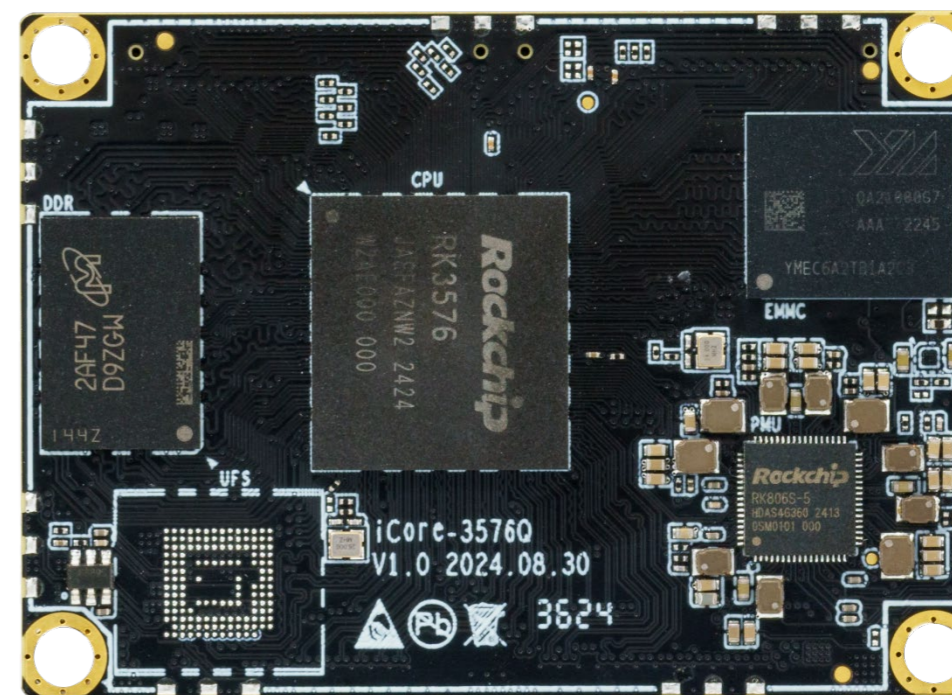


低功耗工业级AIOT核心板

- iCore-3576Q (商规级)
- iCore-3576JQ (工规级)

V1.0 2024-12-13

天启智能科技





产品特点 Product features



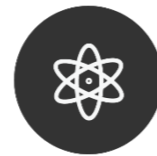
八核64位AIOT处理器RK3576

新一代八核64位高性能AIOT处理器RK3576, 采用大小核构架(4xA72+4xA53), 先进工艺制程, 主频高达2.2GHz



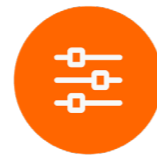
内置6TOPS算力NPU

NPU算力高达6TOPS, 支持INT4/INT8等操作, 支持双核协同工作或独立工作, 支持多任务、多场景并行; 支持YOLO、语言大模型私有化部署



工业新特性, 满足工业应用需求

具有实时网络、Flexbus、硬件资源隔离、DSMC等工业新特性, 满足不同的工业应用需求



丰富的扩展接口

拥有CAN FD、I3C、UART、I2C、SAI、PWM、SPI、PCIe2.1、SATA3.0、USB3.0等扩展接口, 满足不同场景的外设扩展需求



4K@120fps高帧率视频解码

8K@30fps/4K@120fps视频解码(H.265/HEVC、VP9、AVS2、AV1), 4K@60fps视频编码(H.265/HEVC、H.264/AVC)



BTB接口, 高速工业级连接器

核心板采用BTB接口设计, 配用高速工业级连接器, 具有超强的传输能力、高频传输稳定性、无需焊接的便捷性, 助力产品快速上市



支持RTLinux、多种操作系统

支持RTLinux内核, 实时性能优秀; 支持Android14、Linux OS、Buildroot、国产操作系统



广泛的应用场景

广泛适用于: 边缘计算、大模型本地化、智慧商显、云终端产品、工控主机、汽车电子等行业领域

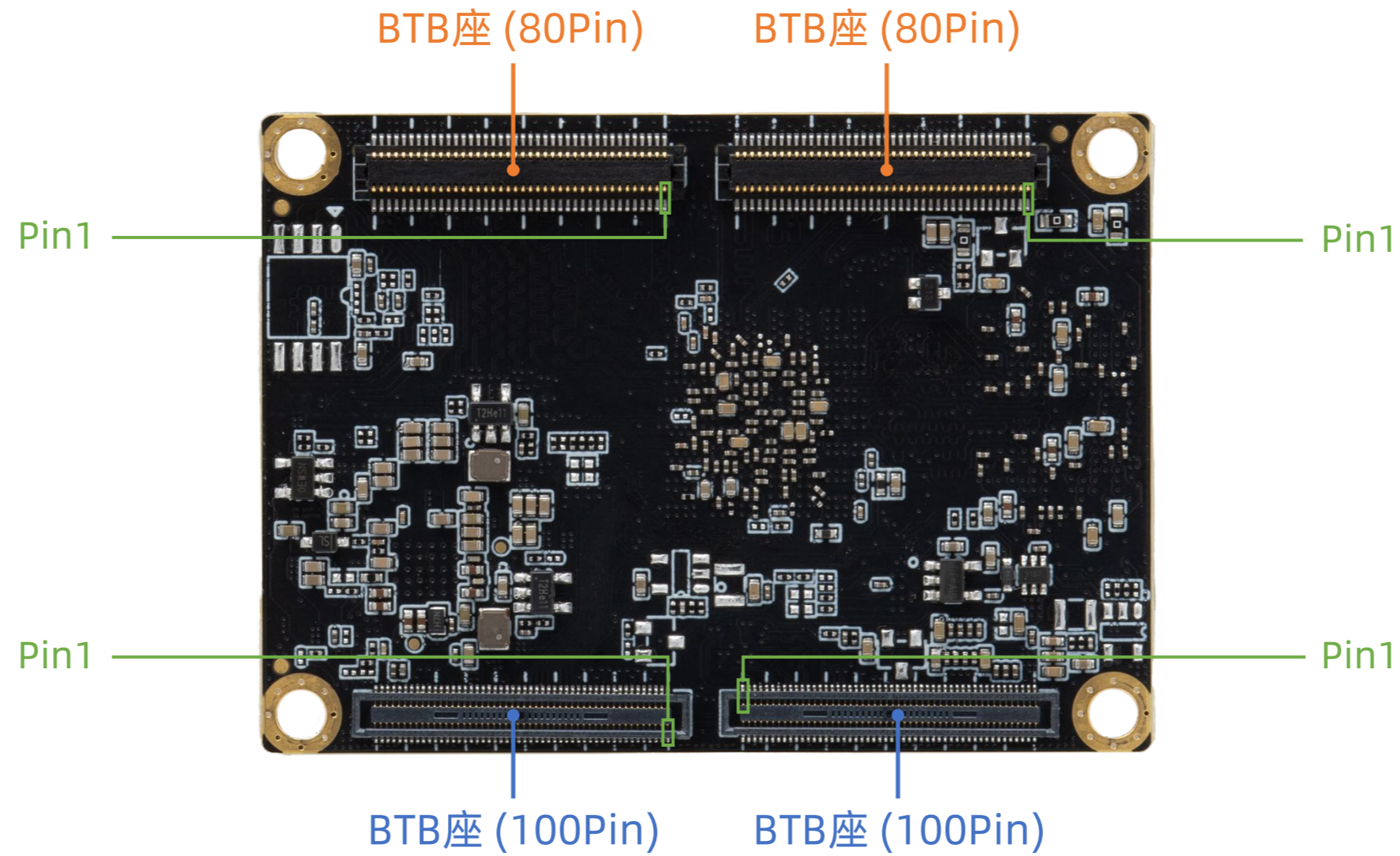
规格参数 Specifications



		iCore-3576Q (商规级)	iCore-3576JQ (工规级)
基本参数	SOC	Rockchip RK3576	Rockchip RK3576J
	CPU	八核64位处理器 (4xA72 + 4xA53), 主频最高 2.2GHz	八核64位处理器 (4xA72 + 4xA53), 主频最高 1.6GHz
	GPU	G52 MC3 @ 1GHz, 支持 OpenGL ES 1.1/2.0/3.2, OpenCL 2.0, Vulkan 1.1, 内嵌高性能 2D 加速硬件	
	NPU	6 TOPS 算力 NPU, 支持 INT4/INT8/INT16/FP16/BF16/TF32操作, 支持双核协同工作或独立工作, 支持多任务、多场景并行	
	ISP	内置1600万像素 ISP, 支持低光降噪, 支持RGB-IR sensor, 支持最高120dB HDR, AI-ISP提升低噪度的图像效果	
	编解码	视频解码: 8K@30fps/4K@120fps (H.265/HEVC、VP9、AVS2、AV1)、4K@60fps (H.264/AVC) 视频编码: 4K@60fps (H.265/HEVC、H.264/AVC) 图片编解码: 4K@60fps MJPG	
	内存	LPDDR4/LPDDR4x (4GB/8GB 可选)	
	存储	eMMC (16GB/32GB/64GB/128GB/256GB 可选)、UFS2.0 (可选)	
	电源	5.0V (电压误差 ± 5%)	
	功耗	最大功耗: 4.5W(5V/900mA) 典型功耗: 0.5W(5V/100mA) 休眠功耗: 0.045W(5V/9mA)	最大功耗: 3.75W(5V/750mA) 典型功耗: 0.45W(5V/90mA) 休眠功耗: 0.045W(5V/9mA)
	系统	支持RTLinux 内核, 实时性能优秀, 广泛应用于工业应用场景 支持Android14、Linux OS、Buildroot、国产操作系统, 为产品研发提供安全稳定的系统环境 具有实时网络、Flexbus、硬件资源隔离、DSMC等工业新特性, 满足不同的工业应用需求	
	AI性能	支持Transformer架构下超大规模参数模型的私有化部署, 如Gemma-2B、ChatGLM3-6B、Qwen-1.8B、Phi-3-3.8B等大型语言模型 支持CNN、RNN、LSTM等传统网络架构, 支持RKNN模型导入导出, 支持多种深度学习框架, 包括TensorFlow、TensorFlow Lite、PyTorch、Caffe、ONNX和Darknet, 并支持自定义算子开发 支持Docker容器化管理技术	
		支持基于深度学习的实时目标检测算法YOLO (You Only Look Once), 相比于传统的目标检测方法, YOLO具有快速和实时性的优势, 能够在图像或视频中准确地识别和定位多个目标物体, 强势赋能AI应用	
	接口类型	BTB (2 × BTB座(80Pin) + 2 × BTB座(100Pin))	
	尺寸	60.00mm × 42.95mm × 5.68mm	
	重量	≈15g	
	环境	工作温度: -20°C ~ 60°C, 存储湿度: 10% ~ 90%RH (无凝露)	工作温度: -40°C ~ 85°C, 存储湿度: 10% ~ 90%RH (无凝露)
接口参数	网络	2 × GMAC (提供RMII 或 RGMII 接口连接外置的 Ethernet PHY; 支持10/100/1000 Mbps速率), 通过USB、PCIE、SDIO、UART可扩展WiFi、蓝牙、4G、5G	
	视频输入	2 × MIPI DPHY CSI (支持MIPI V1.2 版本; 1 × 4 Lanes 或 2 × 2 Lanes) 1 × MIPI DCPHY CSI RX (DPHY 支持 V2.0 版本 支持4Lane/2Lane/1Lane模式; CPHY 支持 V1.1 版本 支持0/1/2 Trio模式) 1 × DVP (8/10/12/16-bit, BT.601/BT.656 and BT.1120)	
	视频输出	1 × HDMI2.1(4096×2160@120Hz)/eDP1.3 (4096×2160@60Hz支持1Lane/2Lane/4Lane 模式) 1 × DP1.4 (4096×2160@120Hz) 1 × EBC 输出接口 (支持 E-ink EPD (Electronic Paper Display), 2560×1920) 1 × MIPI_DCPHY_TX (支持 V2.0 版本 支持0/1/2/3 Lane模式; C-PHY 支持 V1.1 版本 支持0/1/2 Trio模式; 2560×1600@60Hz) 1 × LCDC TX (支持并行 24bit RGB 模式 1920×1080@60Hz、16bit BT1120 模式 1920×1080@60Hz、8bit BT656 模式 720×576@60Hz 以及 MCU模式)	
	音频	2 × SAI (4T/4R)、3 × SAI (1T/1R), 支持 I2S/TDM/PCM 模式, 支持高达 192KHz 的采样率 2 × SPDIF TX & RX (8ch; 最大支持 24bits 解析度) 2 × PDM (最高8 channels, 音频分辨率16~24 位, 采样率达192KHz, 支持 PDM 主接收模式) 2 × DSM (支持双倍数据速率接口; 支持 8 线和 16 线串行传输模式; DSMC_CLKP/N 最高速率为 100MHz)	
	PCIe/SATA	1 × PCIe 2.1/SATA 3.1/USB 3.2 Gen1 组合接口 1 × PCIe 2.1/SATA 3.1 组合接口	
	USB	1 × USB3.2 Gen1 OTG0 (与DP1.4复用) 1 × USB3.2 Gen1 OTG1 (与PCIe 2.1/SATA 3.1复用)	
	SDIO	2 × SDIO3.0	
	PWM	16 × PWM	
	SPI	5 × SPI (支持串行主站和串行从模式, 软件可配置)	
	I2C	10 × I2C (支持 7 位和 10 位地址模式, 标准模式下数据速率高达100kbps, 快速模式下数据速率高达400kbps)	
	I3C	2 × I3C (符合 I2C 标准, 支持 SDR 模式、支持多达 10 个设备)	
	UART	12 × UART (支持自动流量控制模式、支持 RS485 功能)	
	CAN	2 × CAN FD (支持 8192 bit 接收 FIFO)	
	看门狗	支持外部看门狗 (板载看门狗 IC)	
	SARADC	7 × SARADC + 1 × SARADC (仅用于 boot), 支持 12 位分辨率, 高达 1MS/s 的采样率	

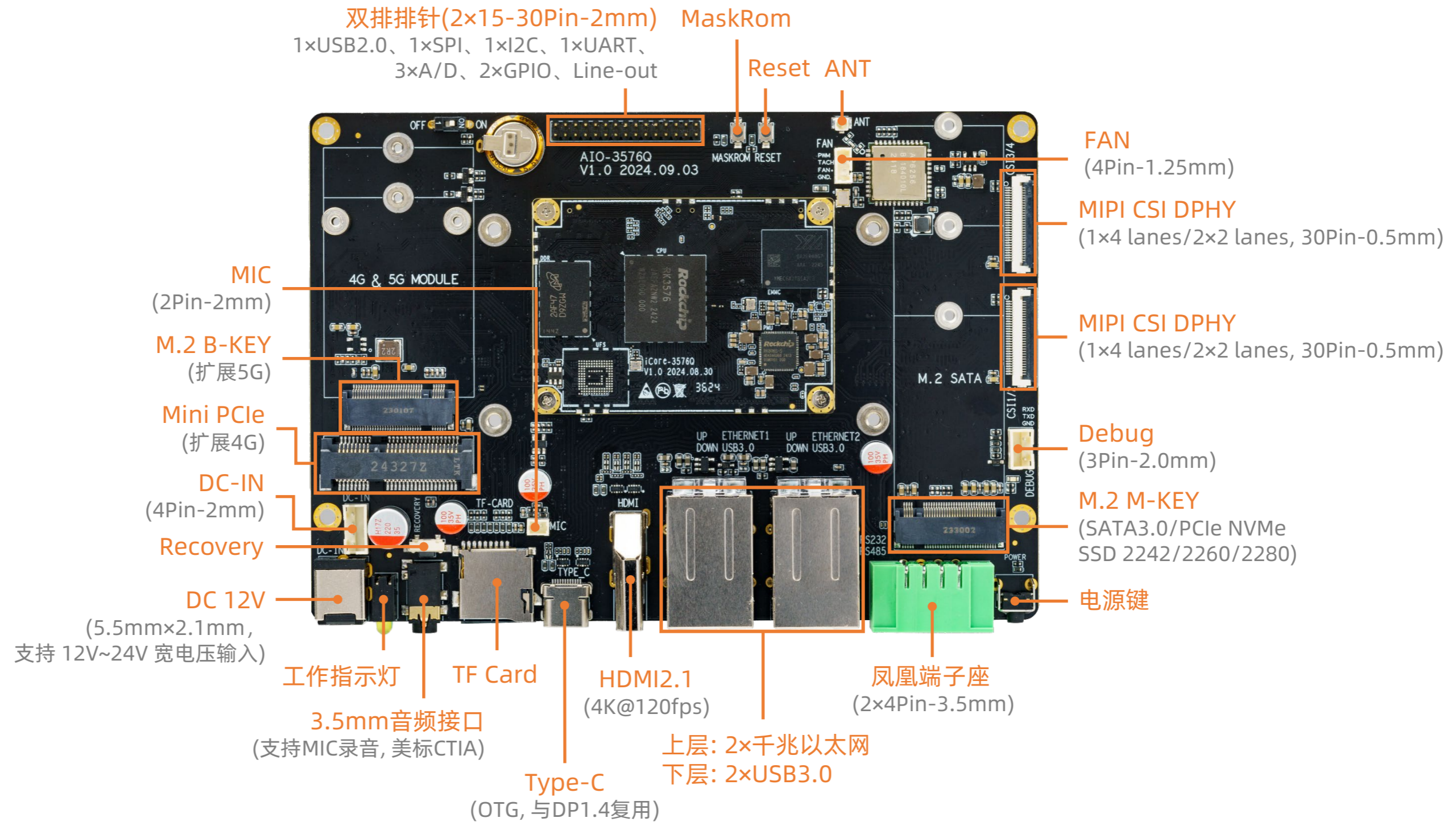


核心板接口描述 Core board Interface description

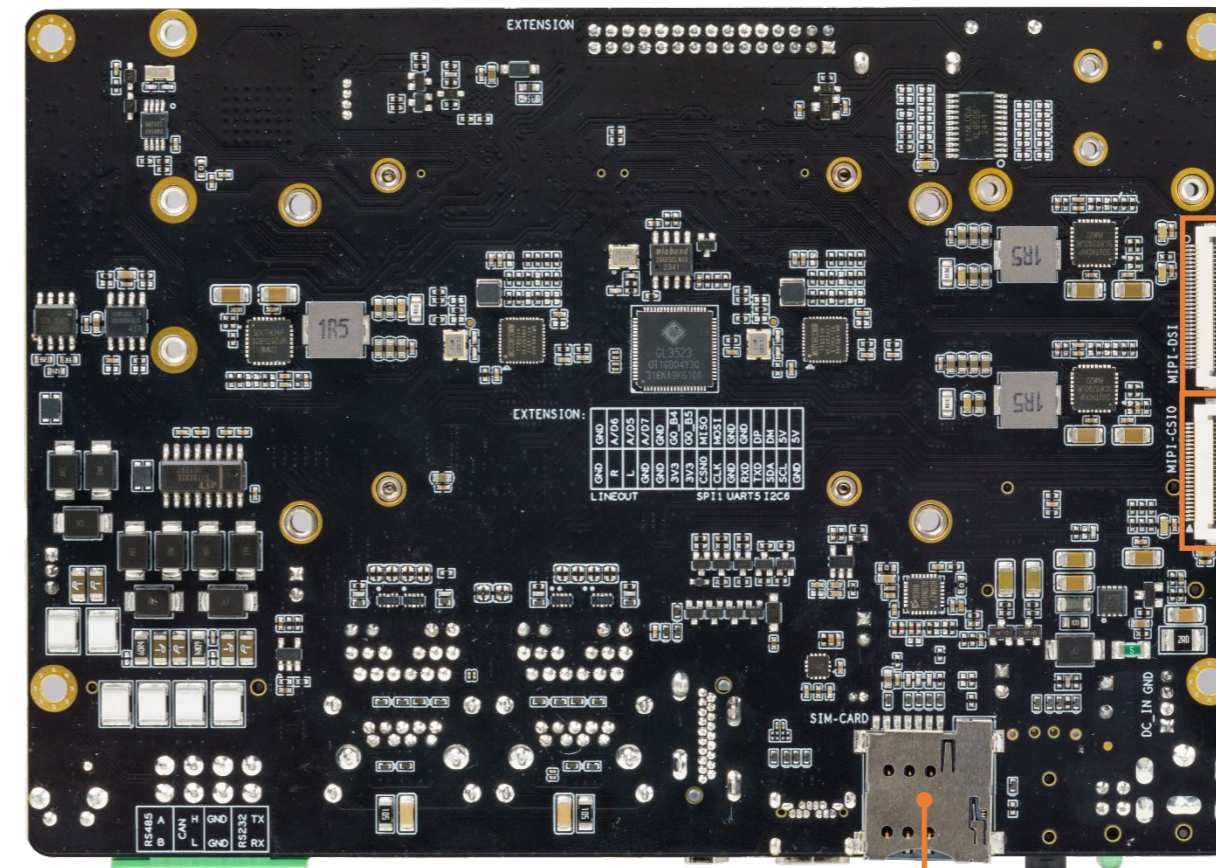
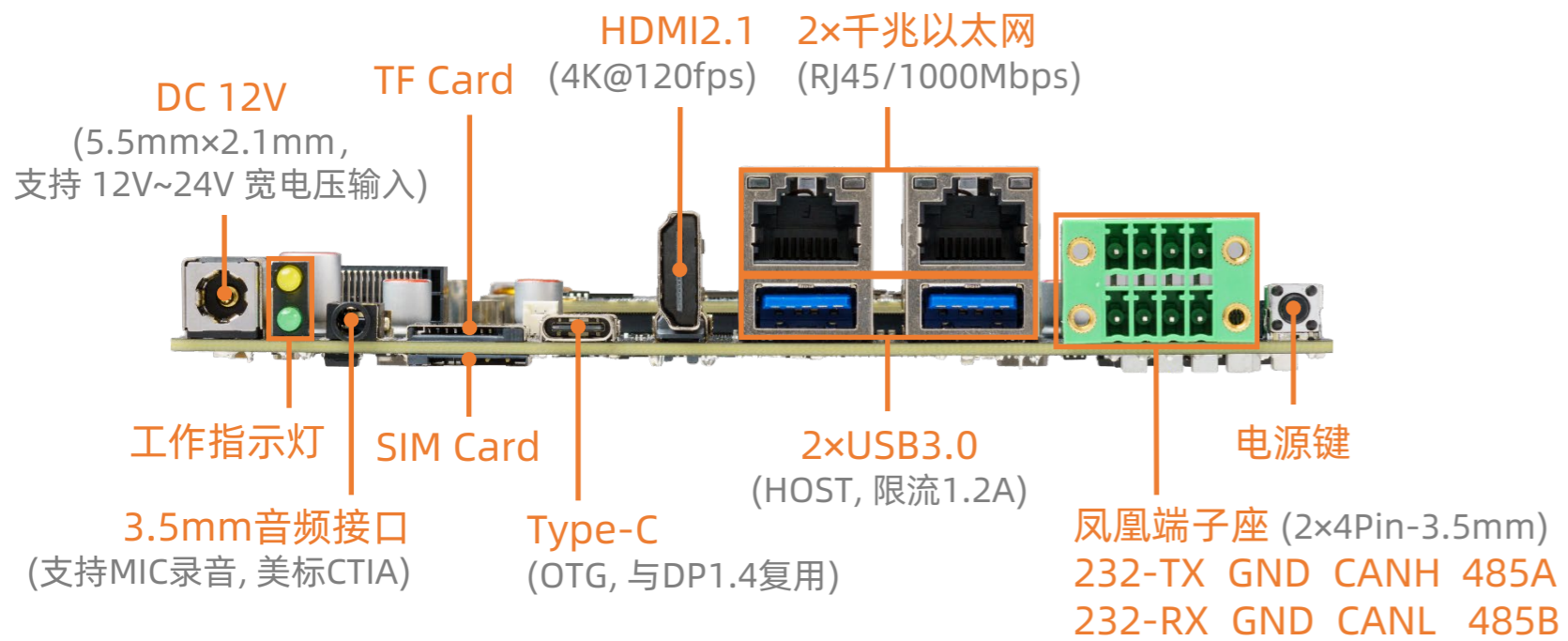




主板接口描述 Mainboard Interface description



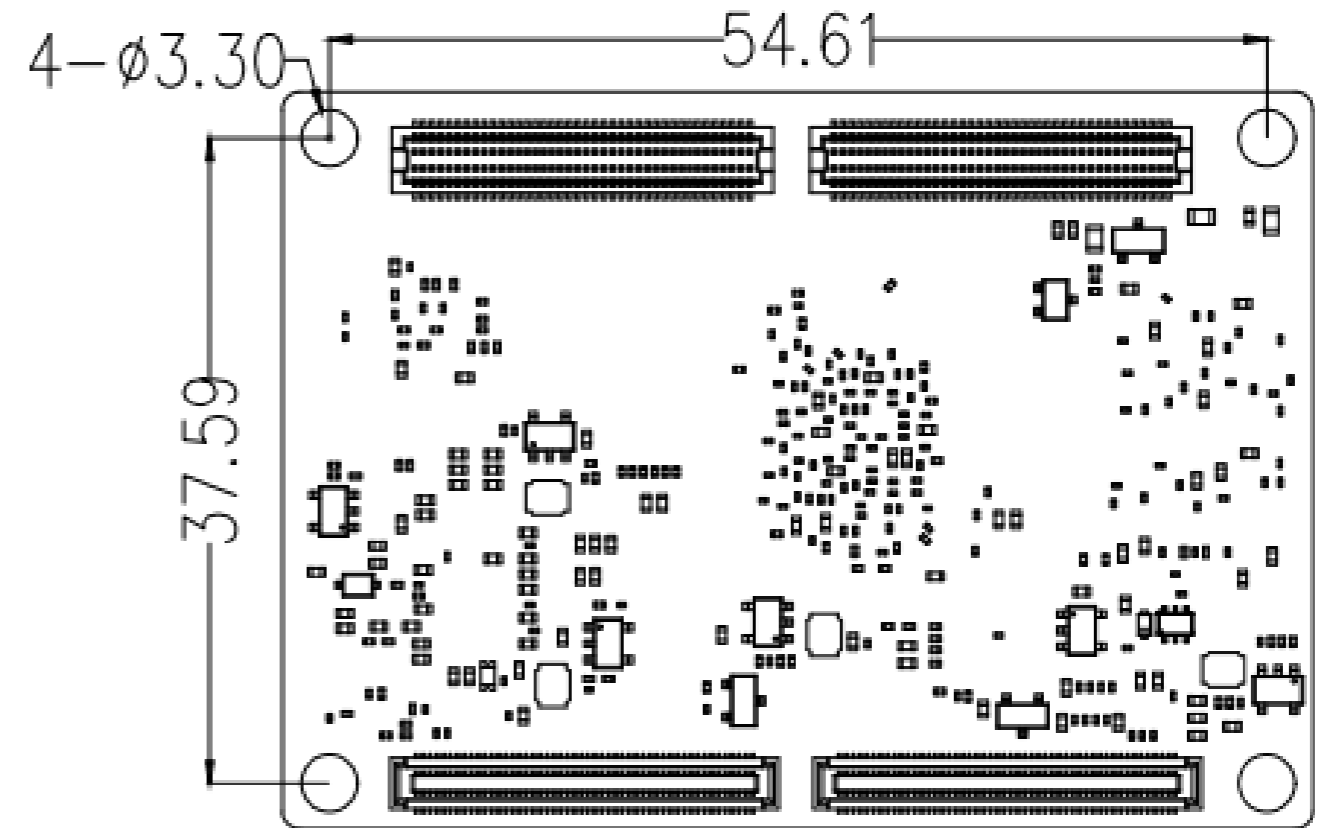
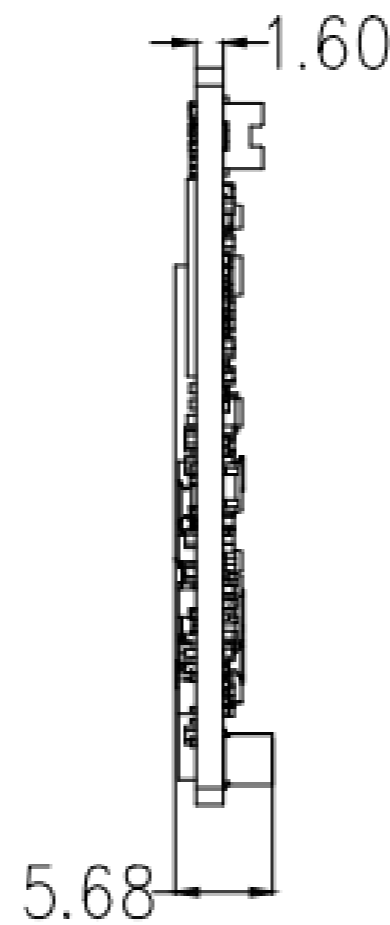
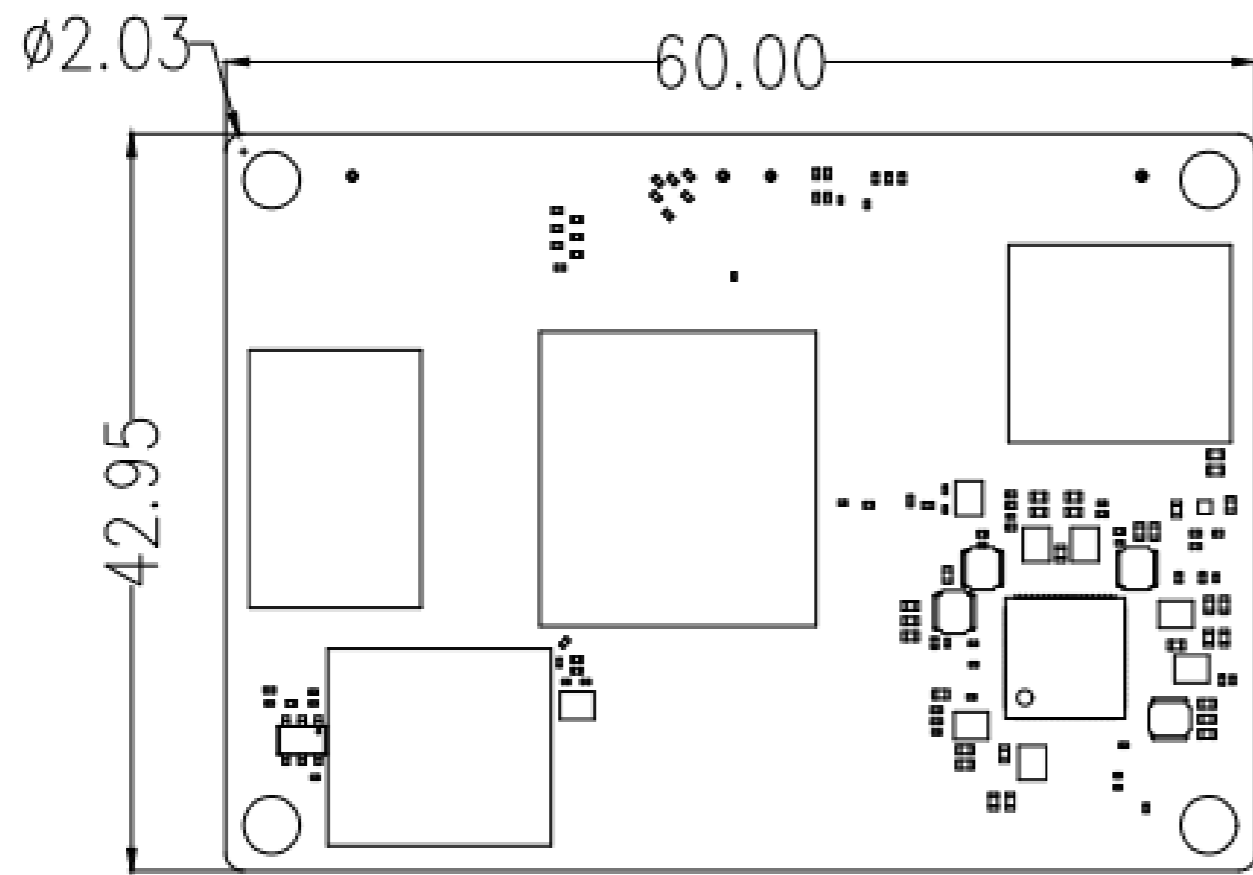
主板接口描述 Mainboard Interface description



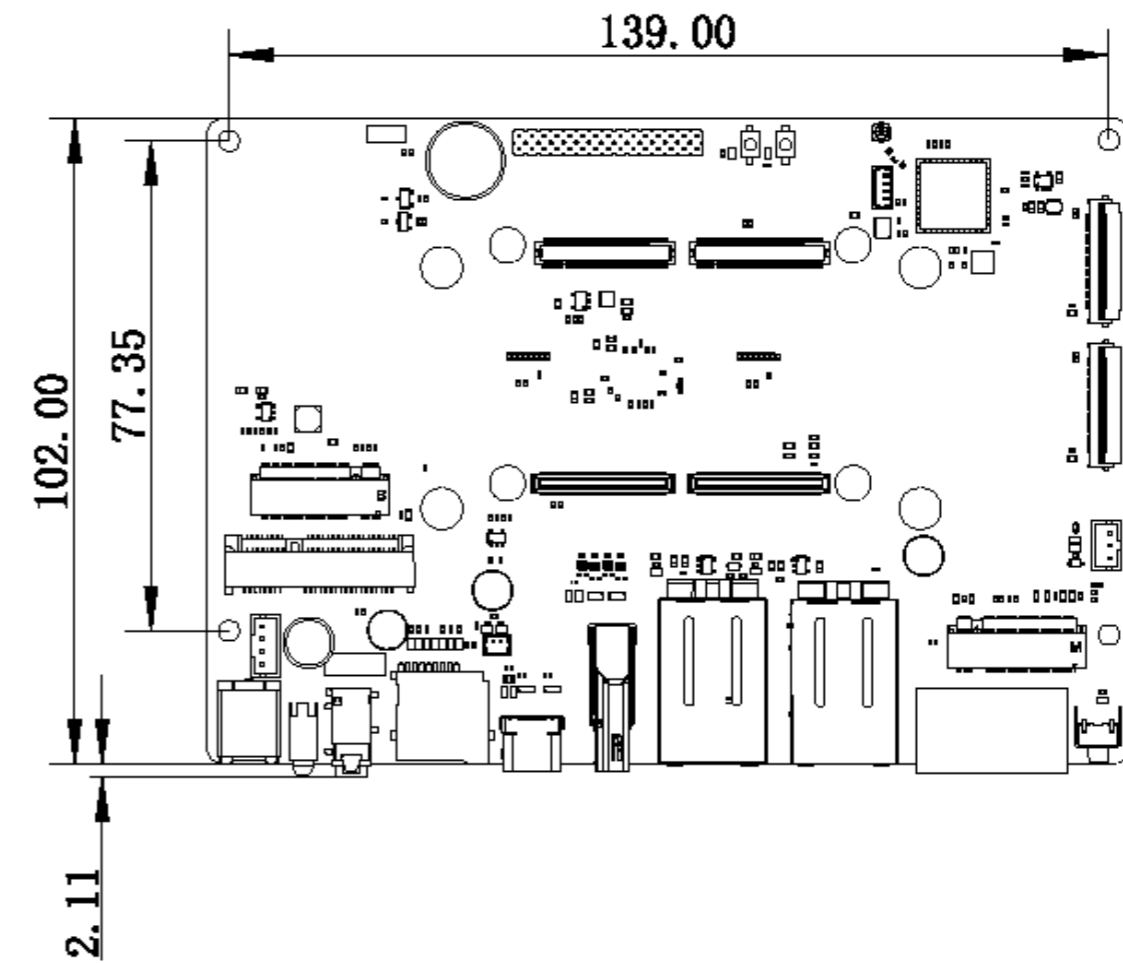
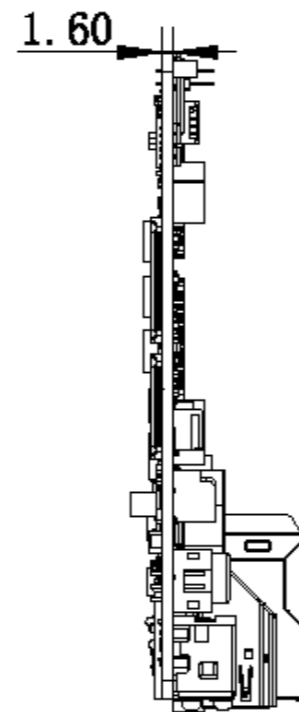
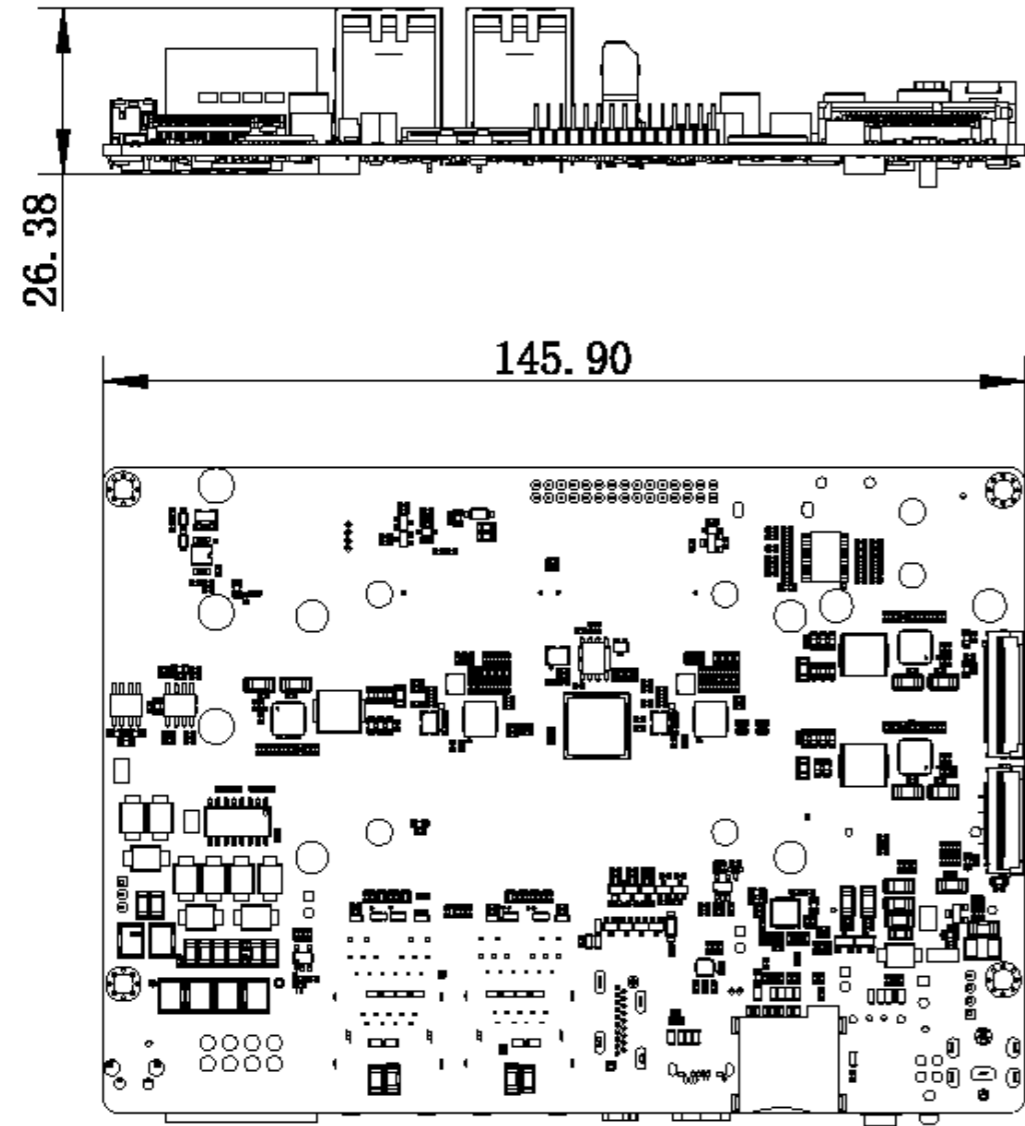
MIPI DSI D/CPHY (30Pin-0.5mm, 2560×1600@60Hz)
 MIPI CSI D/C PHY (DPHY(1×4 Lanes/2×2 Lanes)或 CPHY(3 Lanes), 24Pin-0.5mm)

SIM Card

核心板尺寸 Core board Dimension



主板尺寸 Mainboard Dimension





接口定义 Interface definition

Notes1:

① : Pad types: I = input, O = output, I/O = input/output (bidirectional), G= Ground ,
P = power supply , DOWN = Internal pull down , UP = Internal pull UP L = Lowe Level H = High level”

PIN	iCORE-3576Q pin definition (J1)	RK3576 Pin NO.	Pad type	IO Power domain	IO Pull	Function for Main BOARD (MB-Q-RK3576)	Defual function description
1	GND		G			GND	GND
3	MIPI_DPHY_DSI_TX_D3N/MIPI_CPHY_DSI_TX_TRIO2_C	AK19	I/O	-		MIPI_DPHY_DSI_TX_D3N	MIPI_DPHY_DSI_TX_D3N
5	MIPI_DPHY_DSI_TX_D3P/NO_USE	AL19	I/O	-		MIPI_DPHY_DSI_TX_D3P	MIPI_DPHY_DSI_TX_D3P
7	GND		G			GND	GND
9	MIPI_DPHY_DSI_TX_D2N/MIPI_CPHY_DSI_TX_TRIO2_A	AK18	I/O	-		MIPI_DPHY_DSI_TX_D2N	MIPI_DPHY_DSI_TX_D2N
11	MIPI_DPHY_DSI_TX_D2P/MIPI_CPHY_DSI_TX_TRIO2_B	AL18	I/O	-		MIPI_DPHY_DSI_TX_D2P	MIPI_DPHY_DSI_TX_D2P
13	GND		G			GND	GND
15	MIPI_DPHY_DSI_TX_CLKN/MIPI_CPHY_DSI_TX_TRIO1_B	AK17	I/O	-		MIPI_DPHY_DSI_TX_CLKN	MIPI_DPHY_DSI_TX_CLKN
17	MIPI_DPHY_DSI_TX_CLKP/MIPI_CPHY_DSI_TX_TRIO1_C	AL17	I/O	-		MIPI_DPHY_DSI_TX_CLKP	MIPI_DPHY_DSI_TX_CLKP
19	GND		G			GND	GND
21	MIPI_DPHY_DSI_TX_D1N/MIPI_CPHY_DSI_TX_TRIO0_C	AK16	I/O	-		MIPI_DPHY_DSI_TX_D1N	MIPI_DPHY_DSI_TX_D1N
23	MIPI_DPHY_DSI_TX_D1P/MIPI_CPHY_DSI_TX_TRIO1_A	AL16	I/O	-		MIPI_DPHY_DSI_TX_D1P	MIPI_DPHY_DSI_TX_D1P
25	GND		G			GND	GND
27	MIPI_DPHY_DSI_TX_D0N/MIPI_CPHY_DSI_TX_TRIO0_A	1K23	I/O	-		MIPI_DPHY_DSI_TX_D0N	MIPI_DPHY_DSI_TX_D0N
29	MIPI_DPHY_DSI_TX_D0P/MIPI_CPHY_DSI_TX_TRIO0_B	1K22	I/O	-		MIPI_DPHY_DSI_TX_D0P	MIPI_DPHY_DSI_TX_D0P



接口定义 Interface definition

31	GND		G			GND	GND
33	USB2_OTG0_DP	AK9		-		USB2_OTG0_DP	USB2_OTG0_DP
35	USB2_OTG0_DM	AL9		-		USB2_OTG0_DM	USB2_OTG0_DM
37	GND		G			GND	GND
39	USB2_OTG1_DP	2T4		-		USB2_HOST1_DP	USB2_HOST1_DP
41	USB2_OTG1_DM	2T5		-		USB2_HOST1_DM	USB2_HOST1_DM
43	GND		G			GND	GND
45	DP_TX_AUXN	2T3		-		DP_TX_AUXN	DP_TX_AUXN
47	DP_TX_AUXP	2T2		-		DP_TX_AUXP	DP_TX_AUXP
49	GND		G			GND	GND
51	GND		G			GND	GND
53	GND		G			GND	GND
55	GND		G			GND	GND
57	GND		G			GND	GND
59	GND		G			GND	GND
61	GND		G			GND	GND
63	GND		G			GND	GND
65	GND		G			GND	GND



接口定义 Interface definition

67	GND		G			GND	GND
69	GND		G			GND	GND
71	GND		G			GND	GND
73	GND		G			GND	GND
75	GND		G			GND	GND
77	GND		G			GND	GND
79	GND		G			GND	GND
81	GND		G			GND	GND
83	GND		G			GND	GND
85	GND		G			GND	GND
87	PWM0_CH1_M1/UART11_RX_M2/EDP_TX_HPDI N_M0/I2C7_SDA_M3/PCIE1_CLKREQN_M3/HDMI_TX_HPDI N_M0/DSM_AUD_LN_M1/GPI O4_C1_d	AK2	I	3.3V	DOWN	HDMI_TX0_HPDI N	HDMI_HPD INPUT, Active H
89	PWM2_CH0_M1/UART9_TX_M2/CAN0_TX_M1/I2C2_SCL_M3/HDMI_TX_SCL/DSM_AUD_RP_M1/GPIO4_C2_d	AL2	I/O	3.3V	DOWN	HDMI_TX_SCL	HDMI_TX_SCL
91	PWM2_CH1_M1/UART9_RX_M2/CAN0_RX_M1/I2C2_SDA_M3/HDMI_TX_SDA/DSM_AUD_RN_M1/GPIO4_C3_d	1AE2	I/O	3.3V	DOWN	HDMI_TX_SDA	HDMI_TX_SDA
93	PWM1_CH5_M1/UART11_TX_M2/SPI4_CSN1_M0/I2C7_SCL_M3/PCIE1_WAKEN_M3/HDMI_TX_CEC_M0/SAI4_MCLK_M2/DSM_AUD_LP_M1/GPIO4_C0_d	AK3	I/O	3.3V	DOWN	HDMI_TX0_CEC	HDMI_TX0_CEC
95	PWM2_CH6_M1/UART6_TX_M3/SPI4_CSN0_M0/I2C3_SCL_M3/DP_HPDI N_M0/SAI4_LRCK_M2/ISP_PRELIGHT_TRIG_M1/GPIO4_C4_d	AL3	I/O	3.3V	DOWN	I2C3_SCL_M3	I2C3_SCL_M3 (Core board pull up resistance 2.2K)
97	PWM2_CH5_M1/UART6_RX_M3/SPI4_MOSI_M0/I2C3_SDA_M3/SATA1_ACTLED_M1/PCIE0_WAKEN_M3/VPO_SYNC_OUT/SAI4_SDO_M2/ISP_FLASH_TRIGOUT_M1/GPIO4_C5_d	AK1	I/O	3.3V	DOWN	I2C3_SDA_M3	I2C3_SDA_M3(Core board pull up resistance 2.2K)



接口定义 Interface definition

99	GND		G			GND	GND
2	MIPI_DPHY_CSI0_RX_D3P/NO_USE	AK24	I/O	-		MIPI_DPHY_CSI0_RX_D3P/NO_USE	MIPI_DPHY_CSI0_RX_D3P/NO_USE
4	MIPI_DPHY_CSI0_RX_D3N/MIPI_CPHY_CSI_RX_TRIO2_C	AL24	I/O	-		MIPI_DPHY_CSI0_RX_D3N/MIPI_CPHY_CSI_RX_TRIO2_C	MIPI_DPHY_CSI0_RX_D3N/MIPI_CPHY_CSI_RX_TRIO2_C
6	GND		G			GND	GND
8	MIPI_DPHY_CSI0_RX_D2P/MIPI_CPHY_CSI_RX_TRIO2_B	AK23	I/O	-		MIPI_DPHY_CSI0_RX_D2P/MIPI_CPHY_CSI_RX_TRIO2_B	MIPI_DPHY_CSI0_RX_D2P/MIPI_CPHY_CSI_RX_TRIO2_B
10	MIPI_DPHY_CSI0_RX_D2N/MIPI_CPHY_CSI_RX_TRIO2_A	AL23	I/O	-		MIPI_DPHY_CSI0_RX_D2N/MIPI_CPHY_CSI_RX_TRIO2_A	MIPI_DPHY_CSI0_RX_D2N/MIPI_CPHY_CSI_RX_TRIO2_A
12	GND		G			GND	GND
14	MIPI_DPHY_CSI0_RX_CLKP/MIPI_CPHY_CSI_RX_TRIO1_C	AK22	I/O	-		MIPI_DPHY_CSI0_RX_CLKP/MIPI_CPHY_CSI_RX_TRIO1_C	MIPI_DPHY_CSI0_RX_CLKP/MIPI_CPHY_CSI_RX_TRIO1_C
16	MIPI_DPHY_CSI0_RX_CLKN/MIPI_CPHY_CSI_RX_TRIO1_B	AL22	I/O	-		MIPI_DPHY_CSI0_RX_CLKN/MIPI_CPHY_CSI_RX_TRIO1_B	MIPI_DPHY_CSI0_RX_CLKN/MIPI_CPHY_CSI_RX_TRIO1_B
18	GND		G			GND	GND
20	MIPI_DPHY_CSI0_RX_D1P/MIPI_CPHY_CSI_RX_TRIO1_A	AK21	I/O	-		MIPI_DPHY_CSI0_RX_D1P/MIPI_CPHY_CSI_RX_TRIO1_A	MIPI_DPHY_CSI0_RX_D1P/MIPI_CPHY_CSI_RX_TRIO1_A
22	MIPI_DPHY_CSI0_RX_D1N/MIPI_CPHY_CSI_RX_TRIO0_C	AL21	I/O	-		MIPI_DPHY_CSI0_RX_D1N/MIPI_CPHY_CSI_RX_TRIO0_C	MIPI_DPHY_CSI0_RX_D1N/MIPI_CPHY_CSI_RX_TRIO0_C
24	GND		G			GND	GND
26	MIPI_DPHY_CSI0_RX_D0P/MIPI_CPHY_CSI_RX_TRIO0_B	AK20	I/O	-		MIPI_DPHY_CSI0_RX_D0P/MIPI_CPHY_CSI_RX_TRIO0_B	MIPI_DPHY_CSI0_RX_D0P/MIPI_CPHY_CSI_RX_TRIO0_B
28	MIPI_DPHY_CSI0_RX_D0N/MIPI_CPHY_CSI_RX_TRIO0_A	AL20	I/O	-		MIPI_DPHY_CSI0_RX_D0N/MIPI_CPHY_CSI_RX_TRIO0_A	MIPI_DPHY_CSI0_RX_D0N/MIPI_CPHY_CSI_RX_TRIO0_A
30	GND		G			GND	GND
32	USB3_OTG0_SSTX2N/DP_TX_D3N	AK13	I/O	-		USB3_OTG0_SSTX2N/DP_TX_D3N	USB3_OTG0_SSTX2N/DP_TX_D3N
34	USB3_OTG0_SSTX2P/DP_TX_D3P	AL13	I/O	-		USB3_OTG0_SSTX2P/DP_TX_D3P	USB3_OTG0_SSTX2P/DP_TX_D3P



接口定义 Interface definition

36	GND		G			GND	GND
38	USB3_OTG0_SSRX2P/DP_TX_D2P	AK12	I/O	-		USB3_OTG0_SSRX2P/DP_TX_D2P	USB3_OTG0_SSRX2P/DP_TX_D2P
40	USB3_OTG0_SSRX2N/DP_TX_D2N	AL12	I/O	-		USB3_OTG0_SSRX2N/DP_TX_D2N	USB3_OTG0_SSRX2N/DP_TX_D2N
42	GND		G			GND	GND
44	USB3_OTG0_SSTX1N/DP_TX_D1N	AK11	I/O	-		USB3_OTG0_SSTX1N/DP_TX_D1N	USB3_OTG0_SSTX1N/DP_TX_D1N
46	USB3_OTG0_SSTX1P/DP_TX_D1P	AL11	I/O	-		USB3_OTG0_SSTX1P/DP_TX_D1P	USB3_OTG0_SSTX1P/DP_TX_D1P
48	GND		G			GND	GND
50	USB3_OTG0_SSRX1P/DP_TX_D0P	AK10	I/O	-		USB3_OTG0_SSRX1P/DP_TX_D0P	USB3_OTG0_SSRX1P/DP_TX_D0P
52	USB3_OTG0_SSRX1N/DP_TX_D0N	AL10	I/O	-		USB3_OTG0_SSRX1N/DP_TX_D0N	USB3_OTG0_SSRX1N/DP_TX_D0N
54	GND		G			GND	GND
56	GND		G			GND	GND
58	GND		G			GND	GND
60	GND		G			GND	GND
62	GND		G			GND	GND
64	GND		G			GND	GND
66	GND		G			GND	GND
68	GND		G			GND	GND
70	GND		G			GND	GND



接口定义 Interface definition

72	GND		G			GND	GND
74	GND		G			GND	GND
76	GND		G			GND	GND
78	GND		G			GND	GND
80	GND		G			GND	GND
82	GND		G			GND	GND
84	GND		G			GND	GND
86	GND		G			GND	GND
88	USB2_OTG0_ID	2R6	I	1.8V		NC	USB2_OTG0_ID (RK3576 internal pull-up)
90	USB2_OTG0_VBUSDET	2P3	I	3.3V		USB2_OTG0_VBUSDET	USB2_OTG0_VBUSDET
92	SB2_OTG1_ID	2T9	I	1.8V		NC	SB2_OTG1_ID (RK3576 internal pull-up)
94	USB2_OTG1_VBUSDET	2T10	I	3.3V		NC	USB2_OTG1_VBUSDET
96	PWM2_CH2_M1/CAN1_TX_M1/SPI4_MISO_M0/I2C6_SCL_M3/SAT_A0_ACTLED_M1/PCIE0_CLKREQN_M3/VP1_SYNC_OUT/SAI4_SDI_M2/GPIO4_C6_d	1AE1	I/O	3.3V	DOWN	I2C6_SCL_M3	I2C6_SCL
98	PWM2_CH3_M1/CAN1_RX_M1/SPI4_CLK_M0/I2C6_SDA_M3/VP2_SYNC_OUT/SAI4_SCLK_M2/GPIO4_C7_d	AJ1	I/O	3.3V	DOWN	I2C6_SDA_M3	I2C6_SDA
100	GND		G			GND	GND
PIN	iCORE-3576Q pin definition (J2)	RK3576 Pin NO.	Pad type	IO Power domain	IO Pull	Function for Main BOARD (MB-Q-RK3576)	Defual function description
1	GND		G			GND	GND



接口定义 Interface definition

3	MIPI_DPHY_CSI1_RX_D3N/MIPI_DPHY_CSI2_RX_D1N	AH28	I/O	-		MIPI_DPHY_CSI1_RX_D3N/MIPI_DPHY_CSI2_RX_D1N	MIPI_DPHY_CSI1_RX_D3N/MIPI_DPHY_CSI2_RX_D1N
5	MIPI_DPHY_CSI1_RX_D3P/MIPI_DPHY_CSI2_RX_D1P	AH29	I/O	-		MIPI_DPHY_CSI1_RX_D3P/MIPI_DPHY_CSI2_RX_D1P	MIPI_DPHY_CSI1_RX_D3P/MIPI_DPHY_CSI2_RX_D1P
7	GND		G			GND	GND
9	MIPI_DPHY_CSI1_RX_D2N/MIPI_DPHY_CSI2_RX_D0N	AG28	I/O	-		MIPI_DPHY_CSI1_RX_D2N/MIPI_DPHY_CSI2_RX_D0N	MIPI_DPHY_CSI1_RX_D2N/MIPI_DPHY_CSI2_RX_D0N
11	MIPI_DPHY_CSI1_RX_D2P/MIPI_DPHY_CSI2_RX_D0P	AG29	I/O	-		MIPI_DPHY_CSI1_RX_D2P/MIPI_DPHY_CSI2_RX_D0P	MIPI_DPHY_CSI1_RX_D2P/MIPI_DPHY_CSI2_RX_D0P
13	GND		G			GND	GND
15	MIPI_DPHY_CSI2_RX_CLKN	1AD22	I/O	-		MIPI_DPHY_CSI2_RX_CLKN	MIPI_DPHY_CSI2_RX_CLKN
17	MIPI_DPHY_CSI2_RX_CLKP	1AD21	I/O	-		MIPI_DPHY_CSI2_RX_CLKP	MIPI_DPHY_CSI2_RX_CLKP
19	GND		G			GND	GND
21	MIPI_DPHY_CSI1_RX_D1N	AF28	I/O	-		MIPI_DPHY_CSI1_RX_D1N	MIPI_DPHY_CSI1_RX_D1N
23	MIPI_DPHY_CSI1_RX_D1P	AF29	I/O	-		MIPI_DPHY_CSI1_RX_D1P	MIPI_DPHY_CSI1_RX_D1P
25	GND		G			GND	GND
27	MIPI_DPHY_CSI1_RX_D0N	AE28	I/O	-		MIPI_DPHY_CSI1_RX_D0N	MIPI_DPHY_CSI1_RX_D0N
29	MIPI_DPHY_CSI1_RX_D0P	AE29	I/O	-		MIPI_DPHY_CSI1_RX_D0P	MIPI_DPHY_CSI1_RX_D0P
31	GND		G			GND	GND
33	MIPI_DPHY_CSI1_RX_CLKN	1AC23	I/O	-		MIPI_DPHY_CSI1_RX_CLKN	MIPI_DPHY_CSI1_RX_CLKN
35	MIPI_DPHY_CSI1_RX_CLKP	1AC22	I/O	-		MIPI_DPHY_CSI1_RX_CLKP	MIPI_DPHY_CSI1_RX_CLKP
37	GND		G			GND	GND



接口定义 Interface definition

39	PCIE0_REFCLKP	1N22	O	-		PCIE0_REFCLKP	PCIE0_REFCLKP
41	PCIE0_REFCLKN	1N23	O	-		PCIE0_REFCLKN	PCIE0_REFCLKN
43	GND		G			GND	GND
45	PCIE1_REFCLKP	1L23	O	-		NC	PCIE1_REFCLKP
47	PCIE1_REFCLKN	1M23	O	-		NC	PCIE1_REFCLKN
49	GND		G			GND	GND
51	PCIE0_RXP/SATA0_RXP	R28	I	-		PCIE0_RXP/SATA0_RXP	PCIE0_RXP
53	PCIE0_RXN /SATA0_RXN	R29	I	-		PCIE0_RXN /SATA0_RXN	PCIE0_RXN
55	GND		G			GND	GND
57	PCIE0_TXP/SATA0_TXP	P29	O	-		PCIE0_TXP/SATA0_TXP	PCIE1_TX0_P
59	PCIE0_TXN/SATA0_TXN	P28	O	-		PCIE0_TXN/SATA0_TXN	PCIE1_TX0_N
61	GND		G			GND	GND
63	PCIE1_RXN/SATA1_RXN/USB3_HOST1_SSRXN	M29	I	-		USB3_HOST1_SSRXP	USBSS0_RX_N (Default:)
65	PCIE1_RXP /SATA1_RXP/USB3_HOST1_SSRXP	M28	I	-		USB3_HOST1_SSRXN	USBSS0_RX_P (Default:)
67	GND		G			GND	GND
69	PCIE1_TXP/SATA1_TXP/USB3_HOST1_SSTXP	N28	O	-		USB3_HOST1_SSTXP	USBSS0_TX_P
71	PCIE1_TXN/SATA1_TXN/USB3_HOST1_SSTXN	N29	O	-		USB3_HOST1_SSTXN	USBSS0_TX_N
73	GND		G			GND	GND



接口定义 Interface definition

75	SAI0_SDI2_M1/SAI0_SDO2_M1/PDM0_SDI2_M0/I2C4_SCL_M0/CPUBIG_AVS/PWM1_CH5_M0/UART1_CTSN_M0/GPIO0_D2_d	1Y22	I/O	3.3V	DOWN	VCC_SYS_EN	VCC_SYS_EN, Active H
77	PDM0_CLK1_M0/HDMI_TX_CEC_M1/SPI0_CSN1_M0/PWM0_CH1_M0/GPIO0_C3_d	1W21	I/O	3.3V	DOWN	FAN_PWM	FAN_PWM OUTPUT
79	CLK_32K_IN/CLK0_32K_OUT/I2C6_SCL_M0/GPIO0_A2_d	1U23	I/O	1.8V	DOWN	32KOUT_RTC2SOC	32KOUT_RTC INPUT To SOC
81	VCCA_3V3_S0		P	3.3V		VCCA_3V3_S0	VCCA_3V3_S0 OUTPUT (3.3V, Total Max:100mA)
83	VCC5V0_SYS_S5		P	5.0V		VCC5V0_SYS Normal: 5V/220mA Max.:5V/1500mA Min.:5V/10mA	VCC5V0_SYS INPUT Voltage 5.0V +/-5%
85	VCC5V0_SYS_S5		P	5.0V			
87	VCC5V0_SYS_S5		P	5.0V			
89	VCC5V0_SYS_S5		P	5.0V			
91	VCC5V0_SYS_S5		P	5.0V			
93	GND		G	GND		GND	GND
95	GND		G	GND			
97	GND		G	GND			
99	GND		G	GND			
2	GND		G			GND	GND
4	HDMI_TX_D3N/EDP_TX_D3N	AK26	O	-		HDMI_TX_D3N	HDMI_TX_D3N
6	HDMI_TX_D3P/EDP_TX_D3P	AL26	O	-		HDMI_TX_D3P	HDMI_TX_D3P
8	GND		G			GND	GND
10	HDMI_TX_D0N/EDP_TX_D0N	AK27	O	-		HDMI_TX_D0N	HDMI_TX_D0N



接口定义 Interface definition

12	HDMI_TX_D0P/EDP_TX_D0P	1AE24	O	-		HDMI_TX_D0P	HDMI_TX_D0P
14	GND		G			GND	GND
16	HDMI_TX_D1N/EDP_TX_D1N	AL28	O	-		HDMI_TX_D1N	HDMI_TX_D1N
18	HDMI_TX_D1P/EDP_TX_D1P	AK28	O	-		HDMI_TX_D1P	HDMI_TX_D1P
20	GND		G			GND	GND
22	HDMI_TX_D2N/EDP_TX_D2N	AK29	O	-		HDMI_TX_D2N	HDMI_TX_D2N
24	HDMI_TX_D2P/EDP_TX_D2P	AJ28	O	-		HDMI_TX_D2P	HDMI_TX_D2P
26	GND		G			GND	GND
28	HDMI_TX_SBDN/EDP_TX_AUXN	2U12	O	-		HDMI_TX_SBDP	HDMI_TX_SBDP
30	HDMI_TX_SBDP/EDP_TX_AUXP	2T12	O	-		HDMI_TX_SBDN	HDMI_TX_SBDN
32	GND		G			GND	GND
34	REF_CLK2_OUT/I2C1_SDA_M1/UART4_RX_M2/PWM1_CH1_M0/GPIO0_B5_d	AD29	I/O	3.3V	DOWN	UART4_RX_M2	UART4_RX_M2
36	REF_CLK1_OUT/I2C1_SCL_M1/UART4_TX_M2/PWM1_CH0_M0/GPIO0_B4_d	AD28	I/O	3.3V	DOWN	UART4_TX_M2	UART4_TX_M2
38	SDMMC0_PWREN/SDMMC1_dETN_M2/HDMI_TX_HPDI_M1/EDP_TX_HPDI_M1/PWM1_CH2_M0/GPIO0_B6_d	1Y24	I/O	3.3V	DOWN	SDMMC0_PWREN_H	SDMMC0_PWREN_H
40	SAI0_SDI1_M1/SAI0_SDO3_M1/PDM0_SDI1_M0/SPI0_MISO_M0/GPIO0_D1_d	AC28	I/O	3.3V	DOWN	GPIO0_D1_d	GPIO0_D1_d
42	I2C2_SCL_M0/UART1_TX_M0/NPU_AVS/PWM1_CH4_M0/GPIO0_B7_d	1W24	I/O	3.3V	DOWN	I2C2_SCL_M0	I2C2_SCL_M0
44	I2C2_SDA_M0/UART1_RX_M0/CPULIT_AVS/PWM1_CH3_M0/GPIO0_C0_d	AB29	I/O	3.3V	DOWN	I2C2_SDA_M0	I2C2_SDA_M0
46	I2C0_SCL_M1/UART8_TX_M2/I3C0_SCL_M0/GPIO0_C1_d	AB28	I/O	3.3V	DOWN	UART8_TX_M2	UART8_TX_M2



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48	I2C0_SDA_M1/UART8_RX_M2/I3C0_SDA_M0/GPIO0_C2_d	1V24	I/O	3.3V	DOWN	UART8_RX_M2	UART8_RX_M2
50	UART0_RX_M0/JTAG_TMS_M1/GPIO0_d5_u	AA28	I/O	3.3V	UP	UART0_RX_M0_DEBUG	UART0_RX_M0_DEBUG
52	UART0_TX_M0/JTAG_TCK_M1/GPIO0_D4_u	1U24	I/O	3.3V	UP	UART0_RX_M0_DEBUG	UART0_RX_M0_DEBUG
54	GND		G			GND	GND
56	GND		G			GND	GND
58	PWM0_CH0_M0/UART10_TX_M2/PDM0_CLK0_M0/SAI0_MCLK_M1/GPIO0_C4_d	1W22	I/O	3.3V	DOWN	UART10_TX_M2	UART10_TX_M2
60	SPI0_MOSI_M0/PDM0_SDI0_M0/SAI0_SDI0_M1/GPIO0_D0_d	1W23	I/O	3.3V	DOWN	RS485_RE_DE	RS485_RE_DE
62	SPI0_CSN0_M0/I2C3_SCL_M1/SAI0_SCLK_M1/GPIO0_C6_d	1Y21	I/O	3.3V	DOWN	GMAC0_INT/PMEB	GMAC0_INT, Active L
64	I3C0_SDA_PU_M0/UART10_RX_M2/DP_HPDI0_M1/SAI0_SDO0_M1/GPIO0_C5_d	1AA22	I/O	3.3V	DOWN	UART10_RX_M2	UART10_RX_M2
66	SAI0_SDI3_M1/SAI0_SDO1_M1/PDM0_SDI3_M0/I2C4_SDA_M0/GPU_AVS/PWM2_CH0_M0/UART1_RTSN_M0/GPIO0_D3_d	1AA23	I/O	3.3V	DOWN	GMAC1_INT/PMEB	GMAC1_INT, Active L
68	GND		G			GND	GND
70	SPI0_CLK_M0/I2C3_SDA_M1/SAI0_LRCK_M1/GPIO0_C7_d	1Y23	I/O	3.3V	DOWN	USBCC_INT_L	USBCC_INT_L
72	REF_CLK0_OUT/AUPLL_CLK_IN_M0/GPIO0_A0_d	V29	I/O	1.8V	DOWN	RTC_INT_L	RTC_INT INPUT, Active L
74	SPI2_MISO_M0/I2C0_SDA_M0/GPIO0_B1_Z	1P23	I/O	3.3V		BT_WAKE_HOST_H	BT_WAKE_HOST_H
76	SDMMC0_DET_N/SPI2_CSN1_M0/GPIO0_A7_u	1U21	I/O	1.8V	UP	SDMMC0_DET_L	SDMMC0_DET, Active L
78	AUPLL_CLK_IN_M1/SPI2_CSN0_M0/I2C0_SCL_M0/GPIO0_B0_Z	1U22	I/O	3.3V		WIFI_WAKE_HOST_H	WIFI_WAKE_HOST_H
80	NPOR (System Reset Input, Active L)	V29	I/O	1.8V		RESET_L	SYSTEM RESET INPUT, Active L
82	VCCA_3V3_S0		P	3.3V		VCCA_3V3_S0	VCCA_3V3_S0 OUTPUT (3.3V, Total Max:100mA)



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84	VCC5V0_SYS_S5		P	5.0V		VCC5V0_SYS Normal: 5V/220mA Max.:5V/1500mA Min.:5V/10mA	VCC5V0_SYS INPUT Voltage 5.0V +/-5%
86	VCC5V0_SYS_S5		P	5.0V			
88	VCC5V0_SYS_S5		P	5.0V			
90	VCC5V0_SYS_S5		P	5.0V			
92	VCC5V0_SYS_S5		P	5.0V			
94	GND		G	GND		GND	GND
96	GND		G	GND			
98	GND		G	GND			
100	GND		G	GND			
PIN	iCORE-3576Q pin definition (J3)	RK3576 Pin NO.	Pad type	IO Power domain	IO Pull	Function for Main BOARD (MB-Q-RK3576)	Defual function description
1	GND		G	GND			
3	I3C1_SDA_PU_M1/SPI0_CLK_M1/I2C5_SCL_M0/UART5_TX_M2/TEST_CLK_OUT/SAI3_SCLK_M3/FSPI1_CLK_M0/SDMMC0_CLK/GPIO2_A5_d	1B21	I/O	1.8V/3.3V	DOWN	SDMMC0_CLK (To SD CARD)	SDMMC_CLK (Core board series resistance 22R)
5	I3C1_SCL_M1/CAN1_RX_M0/SPI0_CSN1_M1/UART5_RTSN_M2/JTAG_TCK_M0/SAI3_LRCK_M3/DSM_AUD_RP_M0/FSPI1_D2_M0/SDMMC0_D2/GPIO2_A2_d	A23	I/O	1.8V/3.3V	DOWN	SDMMC0_D2 (To SD CARD)	SDMMC0_D2
7	I3C1_SDA_M1/CAN1_TX_M0/UART5_CTSN_M2/JTAG_TMS_M0/SAI3_SDI_M3/DSM_AUD_RN_M0/FSPI1_D3_M0/SDMMC0_D3/GPIO2_A3_d	B23	I/O	1.8V/3.3V	DOWN	SDMMC0_D3 (To SD CARD)	SDMMC0_D3
9	PWM2_CH4_M0/SPI0_CSN0_M1/I2C5_SDA_M0/UART5_RX_M2/SAI3_SDO_M3/FSPI1_CSN0_M0/SDMMC0_CMD/GPIO2_A4_d	1A21	I/O	1.8V/3.3V	DOWN	SDMMC0_CMD (To SD CARD)	SDMMC0_CMD
11	PWM2_CH2_M0/CAN0_RX_M0/SPI0_MOSI_M1/I2C8_SCL_M0/UART7_RX_M2/UART0_RX_M1/DSM_AUD_LP_M0/FSPI1_D0_M0/SDMMC0_D0/GPIO2_A0_d	B24	I/O	1.8V/3.3V	DOWN	SDMMC0_D0 (To SD CARD)	SDMMC0_D0
13	PWM2_CH3_M0/CAN0_TX_M0/SPI0_MISO_M1/I2C8_SDA_M0/UART7_TX_M2/UART0_TX_M1/SAI3_MCLK_M3/DSM_AUD_LN_M0/FSPI1_D1_M0/SDMMC0_D1/GPIO2_A1_d	B25	I/O	1.8V/3.3V	DOWN	SDMMC0_D1 (To SD CARD)	SDMMC0_D1



接口定义 Interface definition

15	SARADC_VIN0_BOOT	A25	I	1.8V		SARADC_VIN0_BOOT	ADC0 INPUT (MASKROM Model)
17	SARADC_IN1	1A22	I	1.8V		SARADC_VIN1_KEY/RECOVERY	ADC1 INPUT (LOADER Model)
19	GND		G			GND	GND
21	UART3_RX_M2/PDM0_CLK0_M2/SAI3_MCLK_M1/SDMMC1_CLK_M0/ETH1_TXCLK_M1/GPIO1_C1_d	1B22	I/O	1.8V	DOWN	SDMMC1_CLK_M0 (To SDIO WIFI)	SDMMC1_CLK_M0
23	PWM0_CH0_M1/PI1_CSN1_M0/UART3_TX_M2/PDM0_SDI2_M2/SDMMC1_CMD_M0/ETH1_TXD3_M1/GPIO1_C0_d	B26	I/O	1.8V	DOWN	SDMMC1_CMD_M0 (To SDIO WIFI)	SDMMC1_CMD_M0
25	PCIE0_WAKEN_M1/SPI1_CSN0_M0/UART3_RTSN_M2/SAI3_SDI_M1/SDMMC1_D3_M0/ETH1_TXD2_M1/GPIO1_B7_d	A27	I/O	1.8V	DOWN	SDMMC1_D3_M0 (To SDIO WIFI)	SDMMC1_D3_M0
27	PCIE0_CLKREQN_M1/SPI1_MISO_M0/UART3_CTSN_M2/SAI3_SDO_M1/SDMMC1_D2_M0/ETH1_RXCLK_M1/GPIO1_B6_d	1A23	I/O	1.8V	DOWN	SDMMC1_D2_M0 (To SDIO WIFI)	SDMMC1_D2_M0
29	PWM1_CH0_M1/PCIE1_CLKREQN_M1/SPI1_CLK_M0/I2C9_SDA_M1/SAI3_SCLK_M1/SDMMC1_D0_M0/ETH1_RXD2_M1/GPIO1_B4_d	A28	I/O	1.8V	DOWN	SDMMC1_D0_M0 (To SDIO WIFI)	SDMMC1_D0_M0
31	PWM1_CH1_M1/PCIE1_WAKEN_M1/SPI1_MOSI_M0/I2C9_SCL_M1/SAI3_LCLK_M1/SDMMC1_D1_M0/ETH1_RXD3_M1/GPIO1_B5_d	B27	I/O	1.8V	DOWN	SDMMC1_D1_M0 (To SDIO WIFI)	SDMMC1_D1_M0
33	GND		G			GND	GND
35	MIPI_DPHY_CSI3_RX_CLKN	1H23	I/O	-		MIPI_DPHY_CSI3_RX_CLKN	MIPI_DPHY_CSI3_RX_CLKN
37	MIPI_DPHY_CSI3_RX_CLKP	1H22	I/O	-		MIPI_DPHY_CSI3_RX_CLKP	MIPI_DPHY_CSI3_RX_CLKP
39	GND		G			GND	GND
41	MIPI_DPHY_CSI4_RX_CLKN	1K23	I/O	-		MIPI_DPHY_CSI4_RX_CLKN	MIPI_DPHY_CSI4_RX_CLKN
43	MIPI_DPHY_CSI4_RX_CLKP	1K22	I/O	-		MIPI_DPHY_CSI4_RX_CLKP	MIPI_DPHY_CSI4_RX_CLKP
45	GND		G			GND	GND
47	MIPI_DPHY_CSI3_RX_D3N/MIPI_DPHY_CSI4_RX_D1N	L29	I/O	-		MIPI_DPHY_CSI3_RX_D3N/MIPI_DPHY_CSI4_RX_D1N	MIPI_DPHY_CSI3_RX_D3N/MIPI_DPHY_CSI4_RX_D1N
49	MIPI_DPHY_CSI3_RX_D3P/MIPI_DPHY_CSI4_RX_D1P	L28	I/O	-		MIPI_DPHY_CSI3_RX_D3P/MIPI_DPHY_CSI4_RX_D1P	MIPI_DPHY_CSI3_RX_D3P/MIPI_DPHY_CSI4_RX_D1P



接口定义 Interface definition

51	GND		G			GND	GND
53	MIPI_DPHY_CSI3_RX_D2N/MIPI_DPHY_CSI4_RX_D0N	K29	I/O	-		MIPI_DPHY_CSI3_RX_D2N/MIPI_DPHY_CSI4_RX_D0N	MIPI_DPHY_CSI3_RX_D2N/MIPI_DPHY_CSI4_RX_D0N
55	MIPI_DPHY_CSI3_RX_D2P/MIPI_DPHY_CSI4_RX_D0P	K28	I/O	-		MIPI_DPHY_CSI3_RX_D2P/MIPI_DPHY_CSI4_RX_D0P	MIPI_DPHY_CSI3_RX_D2P/MIPI_DPHY_CSI4_RX_D0P
57	GND		G			GND	GND
59	MIPI_DPHY_CSI3_RX_D1N	J29	I/O	-		MIPI_DPHY_CSI3_RX_D1N	MIPI_DPHY_CSI3_RX_D1N
61	MIPI_DPHY_CSI3_RX_D1P	J28	I/O	-		MIPI_DPHY_CSI3_RX_D1P	MIPI_DPHY_CSI3_RX_D1P
63	GND		G			GND	GND
65	MIPI_DPHY_CSI3_RX_D0N	H29	I/O	-		MIPI_DPHY_CSI3_RX_D0N	MIPI_DPHY_CSI3_RX_D0N
67	MIPI_DPHY_CSI3_RX_D0P	H28	I/O	-		MIPI_DPHY_CSI3_RX_D0P	MIPI_DPHY_CSI3_RX_D0P
69	GND		G			GND	GND
71	VCCA_RK806S		P	5.0V		VCCA_RK806S	RK806S startup circuit power supply
73	VDC_EXT		I	5.0V		VDC_EXT	PMIC_EN INPUT, Active H
75	VCC_3V3_S3		P	3.3V		VCC_3V3_S3	VCC_3V3_S3 OUTPUT (3.3V, Total Max:500mA)
77	VCC_3V3_S3		P	3.3V		VCC_3V3_S3	
79	GND		G			GND	GND
2	GND		G			GND	GND
4	PWM2_CH7_M2/SPI3_CSN1_M0/UART9_CTSN_M0/SPDIF_TX0_M2/SAI0_SDO3_M0/ETH_CLK0_25M_OUT_M1/ETH1_MCLK_M0/CAM_CLK2_OUT_M1/GPIO2_D7_d	1E15	I/O	1.8V	DOWN	CAM_CLK2_OUT_M1	CAM_CLK2_OUTPUT
6	VI_CIF_D7/ETH1_PTP_REFCLK_M1/ETH0_RXD3_M1/SAI0_SCLK_M0/UART7_TX_M0/UART8_RTSN_M1/I2C8_SCL_M2/GPIO2_B6_d	A21	I/O	1.8V	DOWN	SAI0_SCLK_M0	SAI0_SCLK_M0



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8	VI_CIF_D6/ETH0_RXD2_M1/SAI0_LRCK_M0/UART7_RX_M0/UART8_CTSN_M1/I2C8_SDA_M2/GPIO2_B7_d	B21	I/O	1.8V	DOWN	SAI0_LRCK_M0	SAI0_LRCK_M0
10	CAN1_RX_M3 / SPI3_CSNO_M0 /UART3_RTSN_M0 /SPDIF_TX1_M1 / SAI3_SDI_M2 / ETH0_RXD1_M1 / ETH1_PTP_REFCLK_M0 /VI_CIF_CLKI/ GPIO3_A3_d	1A19	I/O	1.8V	DOWN	DIY_LED	DIY_LED
12	MIPI_TE_M1 / CAN1_TX_M3 / SPI3_MISO_M0 / UART3_CTSN_M0 / SPDIF_RX1_M1 /SAI3_SDO_M2 / ETH0_RXCTL_M1 / ETH1_PPSCCLK_M0 / VI_CIF_CLKO / GPIO3_A2_d	1A20	I/O	1.8V	DOWN	WORK_LED	WORK_LED
14	I2C4_SCL_M2 / SPI4_CSNO_M3 /UART8_TX_M1/SAI0_SDO0_M0 / ETH0_RXD0_M1 / SDMMC1_D0_M1 / VI_CIF_D15 / GPIO2_A6_d	B22	I/O	1.8V	DOWN	SAI0_SDO0_M0	SAI0_SDO0_M0
16	PCIE1_CLKREQN_M0/ SPI4_CLK_M3/UART1_RTSN_M1/PDM0_CLK1_M3/SAI0_SDO2_M0 / ETH0_TXCLK_M1 / SDMMC1_CLK_M1/VI_CIF_D10 /GPIO2_B3_d	1B16	I/O	1.8V	DOWN	CAM3_PWDN	CAM3_PWDN
18	PCIE0_CLKREQN_M0 / SPI4_CSNO_M3 / UART1_CTSN_M1 / PDM0_SDI1_M3 / SAI0_SDI2_M0 / ETH0_TXD3_M1 / SDMMC1_CMD_M1/VI_CIF_D11 /GPIO2_B2_d	1A17	I/O	1.8V	DOWN	HUB30_RESET	HUB30_RESET OUTPUT, Active L
20	SATA0_ACTLED_M0/SPI4_MOSI_M3/UART7_CTSN_M0/PDM0_SDI0_M3/SAI0_SDI3_M0 / ETH0_TXD2_M1/SDMMC1_PWREN_M1/VI_CIF_D9/GPIO2_B4_d	A19	I/O	1.8V	DOWN	HP_CTL_H	HP_CTL OUTPUT, Active H
22	SATA1_ACTLED_M0/SPI4_MISO_M3 /UART7_RTSN_M0 / PDM0_CLK0_M3 /SAI0_MCLK_M0 / ETH0_RXCLK_M1 / SDMMC1_DET_N_M1 / VI_CIF_D8/ GPIO2_B5_d	1C18	I/O	1.8V	DOWN	SAI0_MCLK_M0	SAI0_MCLK_M0
24	I2C7_SCL_M1/SPI3_CLK_M0/UART3_TX_M0/SAI3_SCLK_M2 / ETH0_MDIO_M1/VI_CIF_HREF / GPIO3_A0_d	1D16	I/O	1.8V	DOWN	HP_DET_L	HP_DET INPUT, Active H
26	I2C7_SDA_M1 /SPI3_MOSI_M0 /UART3_RX_M0/SAI3_LRCK_M2 /ETH0_MDC_M1/ETH1_PPSTRIG_M0 /VI_CIF_VSYNC /GPIO3_A1_d	1B18	I/O	1.8V	DOWN	CAM4_RESET	CAM4_RESET OUTPUT, Active L
28	VI_CIF_D12/SDMMC1_D3_M1/ETH0_TXD0_M1/SAI0_SDI1_M0/PDM0_SDI2_M3/UART1_RX_M1/GPIO2_B1_d	1A18	I/O	1.8V	DOWN	HDMI_TX_ON_H	HDMI_TX_ON_H
30	VI_CIF_D13/SDMMC1_D2_M1/ETH0_TXD1_M1/SAI0_SDI0_M0/PDM0_SDI3_M3/UART1_TX_M1/GPIO2_B0_d	B19	I/O	1.8V	DOWN	SAI0_SDI0_M0	SAI0_SDI0_M0
32	VI_CIF_D14/SDMMC1_D1_M1/ETH0_TXCTL_M1/SAI0_SDO1_M0/UART8_RX_M1/I2C4_SDA_M2/GPIO2_A7_d	B20	I/O	1.8V	DOWN	CAM4_PWDN	CAM4_PWDN
34	PWM2_CH6_M2/I3C1_SDA_PU_M0/UART9_RTSN_M0 /SPDIF_RX0_M2/ SAI3_MCLK_M2/ETH0_MCLK_M1/ETH_CLK1_25M_OUT_M0/CAM_CLK1_OUT_M1/GPIO2_D6_d	1D18	I/O	1.8V	DOWN	CAM_CLK1_OUT_M1	CAM_CLK1_OUT_M1
36	SARADC_IN7	1E19	I	1.8V		SARADC_VIN7	ADC7 INPUT
38	SARADC_IN4	1E18	I	1.8V		SARADC_VIN4	ADC4 INPUT
40	SARADC_IN3	1C19	I	1.8V		SARADC_VIN3_HP_HOOK	ADC3 INPUT



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42	SARADC_IN6	1D21	I	1.8V		SARADC_VIN6	ADC6 INPUT
44	SARADC_IN5	1D19	I	1.8V		SARADC_VIN5	ADC5 INPUT
46	GND		G			GND	GND
48	PCIE0_BUTTONRSTN/SPI2_MOSI_M1/UART2_RTSN_M0/UART4_TX_M1/FSPI1_D0_M1/ETH1_TXD0_M1/GPIO1_C4_d	1B23	I/O	1.8V	DOWN	UART4_TX_M1	UART4_TX_M1
50	SPI2_CSN0_M1/I2C6_SDA_M1/UART4_CTSN_M1/FSPI1_CSN0_M1/SDMMC1_DET_N_M0/ETH1_PPSTRIG_M1/GPIO1_C3_u	1C23	I/O	1.8V	UP	UART4_CTSN_M1	UART4_CTSN_M1
52	I2C8_SCL_M1/UART2_TX_M0/PDM0_SDI0_M2/FSPI1_D2_M1/ETH1_TXCTL_M1/GPIO1_C6_d	A26	I/O	1.8V	DOWN	WIFI_REG_ON_H	WIFI_EN, Active H
54	I2C8_SDA_M1/UART2_RX_M0/PDM0_SDI1_M2/FSPI1_D3_M1/ETH1_RXD0_M1/GPIO1_C7_d	1C22	I/O	1.8V	DOWN	BT_REG_ON_H	BT_EN, Active H
56	PCIE1_BUTTONRSTN/SPI2_MISO_M1/UART2_CTSN_M0/UART4_RX_M1/FSPI1_D1_M1/ETH1_TXD1_M1/GPIO1_C5_d	B28	I/O	1.8V	DOWN	UART4_RX_M1	UART4_RX_M1
58	ETH1_PPSCCLK_M1/SDMMC1_PWREN_M0/FSPI1_RSTN_M1/FSPI1_CSN1_M1/UART4_RTSN_M1/I2C6_SCL_M1/SPI2_CSN1_M1/PWM1_CH2_M1/GPIO1_C2_u	B29	I/O	1.8V	UP	UART4_RTSN_M1	UART4_RTSN_M1
60	I2C5_SCL_M1/UART10_RTSN_M1/SPDIF_RX1_M2/PDM0_SDI3_M2/SAI2_MCLK_M0/FSPI1_DQS_M1 ETH1_MCLK_M1/GPIO1_D4_d	1E21	I/O	1.8V	DOWN	HOST_WAKE_BT_H	HOST_WAKE_BT_H
62	ETH1_RXCTL_M1/SAI2_SCLK_M0/UART10_RX_M1/I3C0_SDA_PU_M1/GPIO1_D1_d	1D22	I/O	1.8V	DOWN	SAI2_SCLK_M0	SAI2_SCLK_M0
64	ETH1_MDC_M1/SAI2_LRCK_M0/I3C0_SCL_M1/PWM1_CH3_M1/GPIO1_D2_d	1A24	I/O	1.8V	DOWN	SAI2_LRCK_M0	SAI2_LRCK_M0
66	ETH1_RXD1_M1/SAI2_SDO_M0/UART10_TX_M1/GPIO1_D0_d	C29	I/O	1.8V	DOWN	SAI2_SDO_M0	SAI2_SDO_M0
68	ETH1_MDIO_M1/SAI2_SDI_M0/I3C0_SDA_M1/PWM1_CH4_M1/GPIO1_D3_d	C28	I/O	1.8V	DOWN	SAI2_SDI_M0	SAI2_SDI_M0
70	GND		G			GND	GND
72	ETH_CLK1_25M_OUT_M1/FSPI1_CLK_M1/PDM0_CLK1_M2/SPDIF_TX1_M2/UART10_CTSN_M1/I2C5_SDA_M1/SPI2_CLK_M1/SATA_MP5WIT/CLK1_32K_OUT/GPIO1_D5_d	1E22	I/O	1.8V	DOWN	CAM3_RESET	CAM3_RESET OUTPUT, Active L
74	GND		G			GND	GND
76	PMIC_EXT_EN_OUT		O	5.0V		NC	PMIC_EXT_EN OUTPUT, Active H



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78	PWRON_L		I	5.0V		PWRON_L	PWERON KEY INPUT, Active L
80	GND		G			GND	GND
PIN	iCORE-3576Q pin definition (J4)	RK3576 Pin NO.	Pad type	IO Power domain	IO Pull	Function for Main BOARD (MB-Q-RK3576)	Defual function description
1	VCC_1V8_S3		P	1.8V		VCC_1V8_S3	VCC_1V8_S3 OUTPUT (1.8V, Total Max:500mA)
3	VCC_1V8_S3		P	1.8V		VCC_1V8_S3	
5	CAN1_TX_M2/PCIE0_CLKREQN_M2/I2C3_SCL_M0/UART2_TX_M1 FLEXBUS0_D15_M1 SPDIF_TX0_M0/GPIO4_B5_d	1A4	I/O	3.3V	DOWN	PCIE0_CLKREQN_M2	PCIE0_CLKREQN_M2
7	MIPI_TE_M0/SPI4_MISO_M2/FLEXBUS1_D15_M1/PDM1_SDI1_M1/SAI1_SDI1_M0/SAI1_SDO3_M0/GPIO4_B2_d	B6	I/O	3.3V	DOWN	PCIE0_WAKEN_M2	PCIE0_WAKEN_M2
9	SAI1_SDO1_M0/SAI1_SDI3_M0/PDM1_CLK1_M1/FLEXBUS1_D13_M1/SPI4_CLK_M2/UART5_TX_M1/UART6_RTSN_M0/UART2_RTSN_M1/GPIO4_B0_d	1A5	I/O	3.3V	DOWN	UART5_TX_M1	UART5_TX_M1
11	SAI1_SDO2_M0/SAI1_SDI2_M0/PDM1_SDI2_M1/FLEXBUS1_D14_M1/SPI4_MOSI_M2/UART5_RX_M1/UART6_CTSN_M0/UART2_CTSN_M1/GPIO4_B1_d	B7	I/O	3.3V	DOWN	UART5_RX_M1	UART5_RX_M1
13	PWM2_CH7_M0/SPI3_CSN1_M2/SPI4_CSN0_M2/PDM1_SDI0_M1/SAI4_SDO_M0/SAI1_SDI0_M0/GPIO4_B3_d	1A6	I/O	3.3V	DOWN	TYPEC_DPTX_AUX_PUPDCTL2	TYPEC_DPTX_AUX_PUPDCTL2
15	SPDIF_RX0_M0/FLEXBUS0_CSN_M4/UART2_RX_M1/I2C3_SDA_M0/CAN1_RX_M2/GPIO4_B4_d	B8	I/O	3.3V	DOWN	TYPEC_DPTX_AUX_PUPDCTL1	TYPEC_DPTX_AUX_PUPDCTL1
17	VO_LCDC_D21/VO_EBC_GDOE/ETH0_MDC_M0/PDM1_SDI2_M2/DSMC_DATA14/FLEXBUS0_D6/UART1_RX_M2/UART10_CTSN_M0/PWM1_CH2_M3/GPIO3_A6_d	1A7	I/O	1.8V	DOWN	GMAC0_MDC_M0	GMAC0_MDC_M0
19	VO_LCDC_D22/VO_EBC_GDSP/ETH0_MDIO_M0/PDM1_SDI3_M2/DSMC_DATA15/FLEXBUS0_D7/UART1_RTSN_M2/SPI2_CSN1_M2/PWM1_CH1_M3/GPIO3_A5_d	A9	I/O	1.8V	DOWN	GMAC0_MDIO_M0	GMAC0_MDIO_M0
21	GND		G			GND	GND
23	VO_LCDC_D9/VO_EBC_SDDO9/ETH0_TXD3_M0/SAI2_SCLK_M2/DSMC_INT1/FLEXBUS0_D9/UART11_RTSN_M0/SPI4_MISO_M1/I2C9_SCL_M3/PWM2_CH0_M3/GPIO3_C2_d	B9	I/O	1.8V	DOWN	GMAC0_TXD3_M0	GMAC0_TXD3_M0
25	VO_LCDC_D8/VO_EBC_SDDO8/ETH0_TXD2_M0/SAI2_LRCK_M2/DSMC_INT3/FLEXBUS0_D10/FLEXBUS0_CSN_M2/UART11_CTSN_M0/SPI4_MOSI_M1/I2C9_SDA_M3/PWM2_CH1_M3/GPIO3_C3_d	1A8	I/O	1.8V	DOWN	GMAC0_TXD2_M0	GMAC0_TXD2_M0
27	VO_LCDC_D15/VO_EBC_SDDO15/ETH0_TXD1_M0/SPDIF_RX1_M0/DSMC_DATA9/FLEXBUS0_D1/UART9_RTSN_M1/PWM1_CH4_M3/GPIO3_B4_d	B10	I/O	1.8V	DOWN	GMAC0_TXD1_M0	GMAC0_TXD1_M0



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29	VO_LCDC_D14/VO_EBC_SDDO14/ETH0_TXD0_M0/SPDIF_TX1_M0/DSMC_DATA8/FLEXBUS0_D0/UART9_CTSN_M1/PWM1_CH5_M3/GPIO3_B5_d	1A9	I/O	1.8V	DOWN	GMAC0_TXD0_M0	GMAC0_TXD0_M0
31	VO_LCDC_D16/VO_EBC_SDCE0/ETH0_TXCTL_M0/PDM1_SDI0_M2/DSMC_DATA10/FLEXBUS0_D2/UART9_TX_M1/I2C8_SCL_M3/GPIO3_B3_d	A11	I/O	1.8V	DOWN	GMAC0_TXCTL_M0	GMAC0_TXCTL_M0
33	VO_LCDC_D13/VO_EBC_SDDO13/ETH0_TXCLK_M0/DSMC_DQS1/FLEXBUS0_CLK/SPI3_CSN0_M1/PWM0_CH1_M3/GPIO3_B6_d	B11	I/O	1.8V	DOWN	GMAC0_TXCLK_M0	GMAC0_TXCLK_M0
35	GND		G			GND	GND
37	SAI1_SDO0_M0/SAI4_SDI_M0/SPI3_CLK_M2/PWM2_CH6_M0/GPIO4_A7_d	A7	I/O	3.3V		PCIE0_RST	PCIE0_RST
39	GND		G			GND	GND
41	ISP_PRELIGHT_TRIG_M0/ETH1_MDC_M0/UART6_RTSN_M1/I2C9_SDA_M2/PWM2_CH4_M2/GPIO2_D4_d	1B13	I/O	1.8V		GMAC0_TXCLK_M0	GMAC0_TXCLK_M0
43	ISP_FLASH_TRIGOUT_M0/ETH1_MDIO_M0/UART6_CTSN_M1/I2C9_SCL_M2/PWM2_CH5_M2/GPIO2_D5_d	1B15	I/O	1.8V		GMAC1_MDIO_M0	GMAC1_MDIO_M0
45	GND		G			GND	GND
47	GND		G			GND	GND
49	PWM0_CH0_M3/SPI2_MOSI_M2/UART10_RX_M0/FLEXBUS0_D8/DSMC_CSN1/SAI4_MCLK_M1/ETH0_MCLK_M0/VO_EBC_SDCE3/VO_LCDC_D19/GPIO3_B0_d	B14	I/O	1.8V	DOWN	FAN_TACH	FAN_TACH
51	GND		G			GND	GND
53	VO_LCDC_D2/VO_EBC_SDDO2/ETH0_RXCLK_M0/SAI2_MCLK_M2/DSMC_CSN2/FLEXBUS0_D11/FLEXBUS1_CSN_M2/SPI4_CLK_M1/I3C1_SDA_PU_M2/GPIO3_D1_d	1A12	I/O	1.8V	DOWN	GMAC0_RXCLK_M0	GMAC0_RXCLK_M0
55	VO_LCDC_D20/VO_EBC_VCOM/ETH0_RXCTL_M0/PDM1_CLK1_M2/DSMC_DATA13/FLEXBUS0_D5/UART1_TX_M2/UART10_RTSN_M0/GPIO3_A7_d	B13	I/O	1.8V	DOWN	GMAC0_RXCTL_M0	GMAC0_RXCTL_M0
57	VO_LCDC_D17/VO_EBC_SDCE1/ETH0_RXD0_M0/PDM1_SDI1_M2/DSMC_DATA11/FLEXBUS0_D3/UART9_RX_M1/I2C8_SDA_M3/GPIO3_B2_d	A13	I/O	1.8V	DOWN	GMAC0_RXD0_M0	GMAC0_RXD0_M0
59	VO_LCDC_D18/VO_EBC_SDCE2/ETH0_RXD1_M0/PDM1_CLK0_M2/DSMC_DATA12/FLEXBUS0_D4/UART10_TX_M0/SPI4_CSN0_M1/PWM1_CH3_M3/GPIO3_B1_d	1A11	I/O	1.8V	DOWN	GMAC0_RXD1_M0	GMAC0_RXD1_M0
61	VO_LCDC_D0/VO_EBC_SDDO0/ETH0_RXD2_M0/SAI2_SDO_M2/DSMC_CSN0/FLEXBUS1_D2/UART2_CTSN_M2/I3C1_SCL_M2/PWM2_CH5_M3/GPIO3_D3_d	B12	I/O	1.8V	DOWN	GMAC0_RXD2_M0	GMAC0_RXD2_M0



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63	VO_LCDC_D1/VO_EBC_SDDO1/ETH0_RXD3_M0/SAI2_SDI_M2/DSMC_CSN3/FLEXBUS0_D12/FLEXBUS1_D15_M0/FLEXBUS0_CSN_M3/UART2_RTSN_M2/SPI4_CSN1_M1/I3C1_SDA_M2/PWM2_CH4_M3/GPIO3_D2_d	1A10	I/O	1.8V	DOWN	GMAC0_RXD3_M0	GMAC0_RXD3_M0
65	GND		G			GND	GND
67	VI_CIF_D4/ETH1_RXD3_M0/ETH0_PPCLK_M1/SAI2_MCLK_M1/PDM1_CLK1_M0/UART9_TX_M0/SPI1_CSN1_M1/PWM1_CH1_M2/GPIO2_C1_d	1A15	I/O	1.8V	DOWN	GMAC1_RXD3_M0	GMAC1_RXD3_M0
69	VI_CIF_D5/ETH1_RXD2_M0/ETH0_PTP_REFCLK_M1/PDM1_SDI1_M0/UART9_RX_M0/PWM1_CH0_M2/GPIO2_C0_d	A17	I/O	1.8V	DOWN	GMAC1_RXD2_M0	GMAC1_RXD2_M0
71	CAM_CLK0_OUT_M1/ETH1_RXD1_M0/SAI4_MCLK_M3/UART6_TX_M1/I3C1_SCL_M0/PWM2_CH2_M2/GPIO2_D2_d	B17	I/O	1.8V	DOWN	GMAC1_RXD1_M0	GMAC1_RXD1_M0
73	ETH1_RXD0_M0/SAI4_SDO_M3/UART4_RX_M0/I2C6_SDA_M2/PWM2_CH1_M2/GPIO2_D1_d	1A16	I/O	1.8V	DOWN	GMAC1_RXD0_M0	GMAC1_RXD0_M0
75	VI_CIF_D3/ETH1_RXCLK_M0/ETH0_PPSTRIG_M1/SAI2_SCLK_M1/PDM1_SDI2_M0/UART11_CTSN_M1/SPI1_MOSI_M1/PWM1_CH2_M2/GPIO2_C2_d	1D15	I/O	1.8V	DOWN	GMAC1_RXCLK_M0	GMAC1_RXCLK_M0
77	ETH1_RXCTL_M0/UART6_RX_M1/I3C1_SDA_M0/PWM2_CH3_M2/GPIO2_D3_d	B18	I/O	1.8V	DOWN	GMAC1_RXCTL_M0	GMAC1_RXCTL_M0
79	GND		G			GND	GND
2	GND		G			GND	GND
4	GND		G			GND	GND
6	VI_CIF_D1/ETH1_TXD3_M0/SAI2_SDO_M1/PDM1_SDI0_M0/UART11_TX_M1/SPI1_CSN0_M1/PWM1_CH3_M2/GPIO2_C4_d	1A13	I/O	1.8V	DOWN	GMAC1_TXD3_M0	GMAC1_TXD3_M0
8	VI_CIF_D2/ETH1_TXD2_M0/SAI2_LRCK_M1/PDM1_SDI3_M0/UART11_RTSN_M1/SPI1_MISO_M1/PWM0_CH0_M2/GPIO2_C3_d	A15	I/O	1.8V	DOWN	GMAC1_TXD2_M0	GMAC1_TXD2_M0
10	ETH1_TXD1_M0/SAI4_LRCK_M3/UART4_RTSN_M0/I2C5_SDA_M2/PWM0_CH1_M2/GPIO2_C7_d	B15	I/O	1.8V	DOWN	GMAC1_TXD1_M0	GMAC1_TXD1_M0
12	ETH1_TXD0_M0/SAI4_SCLK_M3/UART4_CTSN_M0/I2C5_SCL_M2/PWM1_CH5_M2/GPIO2_C6_d	1A14	I/O	1.8V	DOWN	GMAC1_TXD0_M0	GMAC1_TXD0_M0
14	ETH1_TXCTL_M0/SAI4_SDI_M3/UART4_TX_M0/I2C6_SCL_M2/PWM2_CH0_M2/GPIO2_D0_d	B16	I/O	1.8V	DOWN	GMAC1_TXCTL_M0	GMAC1_TXCTL_M0
16	VI_CIF_D0/ETH1_TXCLK_M0/SAI2_SDI_M1/PDM1_CLK0_M0/UART11_RX_M1/SPI1_CLK_M1/PWM1_CH4_M2/GPIO2_C5_d	1C15	I/O	1.8V	DOWN	GMAC1_TXCLK_M0	GMAC1_TXCLK_M0



接口定义 Interface definition

18	GND		G			GND	GND
20	GND		G			GND	GND
22	GND		G			GND	GND
24	GND		G			GND	GND
26	GND		G			GND	GND
28	GND		G			GND	GND
30	GND		G			GND	GND
32	CAN0_TX_M2/I2C4_SCL_M1/UART6_TX_M0/SPI3_MOSI_M2/FLEXBUS0_D13_M1/PDM1_SDI3_M1/SAI4_SCLK_M0/GPIO4_A4_d	1C5	I/O	3.3V	DOWN	CAN0_TX_M2	CAN0_TX_M2
34	CAN0_RX_M2/I2C4_SDA_M1/UART6_RX_M0/SPI3_MISO_M2/FLEXBUS0_D14_M1/PDM1_CLK0_M1/SAI4_LRCK_M0/GPIO4_A6_d	1B5	I/O	3.3V	DOWN	CAN0_RX_M2	CAN0_RX_M2
36	SAI1_SCLK_M0/FLEXBUS1_CSN_M4/SPI3_CSN0_M2/UART5_RTSN_M1/I2C2_SCL_M2/PWM2_CH4_M1/GPIO4_A3_d	1C6	I/O	3.3V	DOWN	BL_PWM1	BL_PWM1 OUTPUT
38	PCIE1_CLKREQN_M2/I2C2_SDA_M2/UART5_CTSN_M1/SPI4_CSN1_M2/FLEXBUS1_D12_M1/SAI1_LRCK_M0/GPIO4_A5_d	1B6	I/O	3.3V	DOWN	GMAC1_RSTn	GMAC1_Reset OUTPUT, Active L
40	PWM2_CH5_M0/AUPLL_CLK_IN_M2/SAI4_MCLK_M0/SAI1_MCLK_M0/GPIO4_A2_d	1D6	I/O	3.3V	DOWN	GMAC0_RSTn	GMAC0_Reset OUTPUT, Active L
42	PWM2_CH7_M3/SPI3_CSN1_M1/UART5_RTSN_M0/FLEXBUS1_CSN_M1/FLEXBUS1_D12_M0/FLEXBUS0_D15_M0/DSMC_RESETN/SAI4_SCLK_M1/CAM_CLK0_OUT_M0/VO_EBC_SDOE/VO_LCDC_CLK/GPIO3_D7_d	1E7	I/O	1.8V	DOWN	CAM_CLK0_OUT_M0	CAM_CLK0_OUTPUT
44	SPI1_MOSI_M2/UART8_TX_M0/FLEXBUS1_D5/DSMC_DATA3/SAI1_LRCK_M1/VO_EBC_SDDO5/VO_LCDC_D5/GPIO3_C6_d	1D7	I/O	1.8V	DOWN	SPI1_MOSI_M2	SPI1_MOSI_M2
46	SPI1_CLK_M2/UART8_RTSN_M0/FLEXBUS1_D4/DSMC_DATA2/SAI1_SCLK_M1/VO_EBC_SDDO4/VO_LCDC_D4/GPIO3_C7_d	1C7	I/O	1.8V	DOWN	SPI1_CLK_M2	SPI1_CLK_M2
48	I2C7_SDA_M2/UART3_RX_M1/FLEXBUS0_CSN_M1/FLEXBUS1_D13_M0/FLEXBUS0_D14_M0/DSMC_INT2/SAI4_SDO_M1/CAM_CLK2_OUT_M0/SPDIF_TX0_M1/VO_POST_EMPTY/GPIO4_A1_d	1B7	I/O	1.8V	DOWN	I2C7_SDA_M2	I2C7_SDA_M2
50	PWM2_CH2_M3/SPI1_MISO_M2/UART8_RX_M0/FLEXBUS1_D6/DSMC_DATA4/SAI1_SDO0_M1/VO_EBC_SDDO6/VO_LCDC_D6/GPIO3_C5_d	1B9	I/O	1.8V	DOWN	SPI1_MISO_M2	SPI1_MISO_M2



接口定义 Interface definition

52	VO_LCDC_D7/VO_EBC_SDDO7/SAI1_SDO1_M1/DSMC_DATA5/FLEXBUS1_D7/UART11_TX_M0/SPI2_CSN0_M2/I2C5_SCL_M3/CAN0_TX_M3/GPIO3_C4_d	1D9	I/O	1.8V	DOWN	I2C5_SCL_M3	I2C5_SCL_M3
54	I2C4_SCL_M3/UART3_RTSN_M1/UART2_TX_M2/FLEXBUS1_D9/DSMC_DATA7/SAI1_SDO3_M1/ETH0_PPCLK_M0/VO_EBC_SDDO11/VO_LCDC_D11/GPIO3_C0_d	1E9	I/O	1.8V	DOWN	I2C4_SCL_M3	I2C4_SCL_M3
56	I2C3_SDA_M2/SPI3_MISO_M1/UART5_TX_M0/FLEXBUS1_D0/DSMC_CLKP/SAI1_SDI2_M1/VO_EBC_GDCLK/VO_LCDC_HSYNC/GPIO3_D5_d	1D10	I/O	1.8V	DOWN	CAM1_PWDN	CAM1_PWDN
58	PWM2_CH6_M3/SPI3_MOSI_M1/UART5_CTSN_M0/FLEXBUS1_CLK/DSMC_CLKN/SAI1_SDI3_M1/VO_EBC_SDCLK/VO_LCDC_VSYNC/GPIO3_D6_d	1C10	I/O	1.8V	DOWN	CAM1_RESET	CAM1_RESET OUTPUT, Active L
60	CAN0_RX_M3/I2C5_SDA_M3/SPI2_MISO_M2/UART11_RX_M0/FLEXBUS1_D8/DSMC_DATA6/SAI1_SDO2_M1/ETH0_PTP_REFCLK_M0/VO_EBC_SDDO10/VO_LCDC_D10/GPIO3_C1_d	1B10	I/O	1.8V	DOWN	I2C5_SDA_M3	I2C5_SDA_M3
62	MIPI_TE_M2/I2C7_SCL_M2/SPI1_CSN1_M2/UART3_TX_M1/FLEXBUS1_CSN_M3/FLEXBUS1_D14_M0/FLEXBUS0_D13_M0/DSMC_INT0/SAI4_LRCK_M1/CAM_CLK1_OUT_M0/SPDIF_RX0_M1/GPIO4_A0_d	1B12	I/O	1.8V	DOWN	I2C7_SCL_M2	I2C7_SCL_M2
64	PWM2_CH3_M3/SPI1_CSN0_M2/UART8_CTSN_M0/FLEXBUS1_D3/DSMC_DATA1/SAI1_MCLK_M1/VO_EBC_SDDO3/VO_LCDC_D3/GPIO3_D0_d	1C12	I/O	1.8V	DOWN	SPI1_CSN0_M2	SPI1_CSN0_M2
66	VO_LCDC_D12/VO_EBC_SDDO12/ETH0_PPSTRIG_M0/SAI1_SDI0_M1/DSMC_DQS0/FLEXBUS1_D10/FLEXBUS1_CSN_M0/UART2_RX_M2/UART3_CTSN_M1/I2C4_SDA_M3/GPIO3_B7_d	1D12	I/O	1.8V	DOWN	I2C4_SDA_M3	I2C4_SDA_M3
68	VO_LCDC_DEN/VO_EBC_SDLE/SAI1_SDI1_M1/DSMC_DATA0/FLEXBUS1_D1/UART5_RX_M0/SPI3_CLK_M1/I2C3_SCL_M2/GPIO3_D4_d	1E12	I/O	1.8V	DOWN	CAM2_PWDN	CAM2_PWDN
70	PWM1_CH0_M3/SPI2_CLK_M2/UART1_CTSN_M2/FLEXBUS0_CSN_M0/VO_EBC_SDSHR/VO_LCDC_D23/GPIO3_A4_d	1D13	I/O	1.8V	DOWN	CAM2_RESET	CAM2_RESET OUTPUT, Active L
72	GND		G			GND	GND
74	GND		G			GND	GND
76	GND		G			GND	GND
78	GND		G			GND	GND
80	GND		G			GND	GND



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