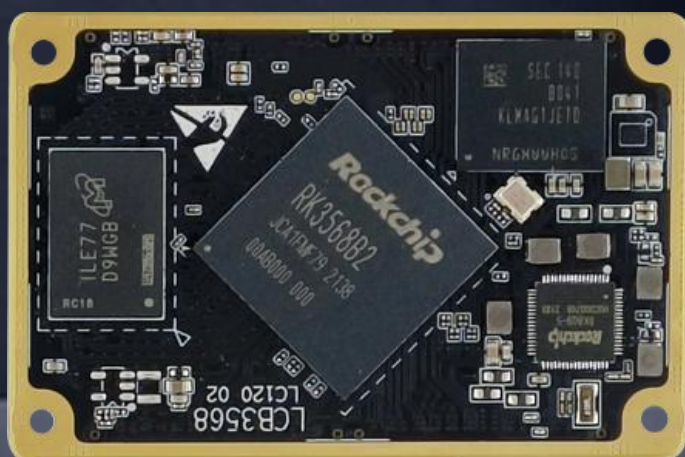


LCB3568/J 系列-核心模块
产品手册
V2.1



©上海临滴科技有限公司 2024 保留一切权利。未经书面许可，任何人不得复制、影印、翻译、传播本手册的任何内容。

表和插图等，仅用于解释和说明目的，与具体产品可能存在差异，请以实物为准。我们会尽力确保与实物相符。本文档内容供客户作为产品设计和终端应用的参考，建议客户详细确认文档中提供的规范和参数，并确认是否能满足所需产品的设计或应用；同时强烈建议客户基于我司产品实物在实际应用场景中做详细的测试，以确保其满足最终使用需求。临滴科技不对任何因使用文档、资料及产品的功能而遭受的损失承担责任。

因产品版本升级或其他需要，本公司可能会对手册进行更新，如您需要最新版手册，请与我司联系。我们始终以客户至上的服务宗旨，为客户提供快速高效的支持服务工作。如有任何需要，请随时联系我司，联系方式如下：

上海临滴科技有限公司
电话：+86 021-20952021
网址：www.neardi.com
邮箱：sales@neardi.com

版权所有©上海临滴科技有限公司 2024 保留一切权利

版本历史

版本	日期	说明
V1.0	2022/4/17	初始版本
V2.0	2024/1/22	产品手册优化
V2.1	2025/5/30	更新引脚标号

目录

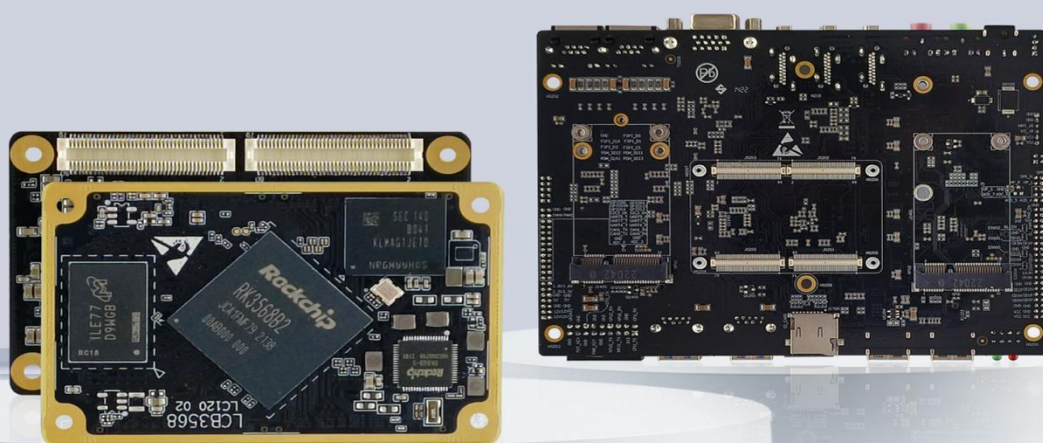
1. 产品介绍	3
2. 功能概述	4
3. 规格参数	6
4. 外观和尺寸结构	9
5. 接口定义	12
6. 应用场景	29
7. 订购型号	30
8. 关于临滴	31

1.产品介绍

LCB3568 基于瑞芯微 RK3568 系列¹芯片平台精心设计的一款全功能核心模块，尺寸仅有 60mm*40mm。核心模块与底板的连接采用四颗双槽 0.5mm pitch 的 80Pin 板对板连接器，并通过 4 颗 M2 的螺丝固定，稳定可靠、易于安装和维护。

LCB3568 包含 CPU、DDR、eMMC 和 PMU 部分。CPU 为 RK3568 或 RK3568J；DDR 采用市场主流型号 LPDDR4，更低功耗更快频率，可选 1GB/2GB/4GB/8GB 配置；eMMC 采用高速 eMMC 5.1 标准，可选 8GB/16GB/32GB/64GB/128GB 多种容量配置；PMU 由 RK809 及多路 DC-DC 和 LDO 组成，CPU 核心电压均支持 DVFS 动态调压。

LCB3568 采用模块化的设计理念，将需求相同、要求严格的核心部分单独设计为一个全功能模块，将 CPU 所有功能引脚全部拉出来，并经过全面的测试和批量化验证。用户基于该模块开发产品，可节省项目开发周期，降低企业成本，提高公司效率。



¹ 包含 RK3568 和 RK3568J

2. 功能概述



高性能处理器

CPU	四核 64 位 Cortex-A55, 主频最高 2.0GHz
GPU	ARM G52 2EE, 内嵌高性能 2D 加速硬件
NPU	1TOPS 算力
VPU	4K 视频解码, 1080P 视频编码
DDR	LPDDR4/4x,可选 1/2/4/8GB
eMMC	eMMC 5.1,可选 8/16/32/64/128GB



操作系统

Android

Linux (Buildroot / Debian / Ubuntu)

星光麒麟

鸿蒙



开源资料

WIKI 资料 <http://www.neardi.com/cms/index/wiki.html>

快速入门

升级固件

Android 开发

Linux 开发

内核驱动

DEMO

系统定制

配件

常见问题

发布说明

硬件资料

芯片 Datasheet

核心板引脚定义

底板参考原理图

底板参考 PCB

关键物料清单

产品 2/3D 图

软件资料

烧写工具及驱动

Android 源码及镜像

uboot 及内核源码

Debian/Ubuntu/Buildroot 的系统文件

3.规格参数

基本参数

SOC	RK3568/RK3568J, 22nm, 四核 64 位 Cortex-A55, 主频最高 2.0GHz
GPU	ARM G52 2EE, OpenGL ES 1.1/2.0/3.2, OpenCL 2.0, Vulkan 1.1, high quality 2D Graphics Engine build in
NPU	up to 1 TOPS; INT8/INT16/FP16/BFP16 MAC hybrid operation supported; TensorFlow, TF-lite, Pytorch, Caffe, ONNX, MXNet, Keras, Darknet deep-learning frameworks supported
VPU	4K VP9 and 4K H265 up to 60fps video decoding 1080P up to 100fps H265/H264 video encoding 8M ISP with HDR
DDR	LPDDR4/LPDDR4X, 可选 1GB/2GB/4GB/8GB(Optional)
eMMC	eMMC 5.1, 可选 8GB/16GB/32GB/64GB/128GB(Optional)
系统	Android / Ubuntu / Buildroot / Debian/星光麒麟/鸿蒙

硬件参数

Camera Interface	Compatible with the MIPI Alliance Interface specification v1.2
	Up to 4 data lanes, 2.5Gbps maximum data rate per lane
	One interface with 1 clock lane and 4 data lanes
	Two interface, each with 1 clock lane and 2 data lanes
	Support up to 16bit DVP interface (digital parallel input)

	Support ISP block(Image Signal Processor)
Display Interface	RGB/ BT656/BT1120/ MIPI_DSI_V1.2/ LVDS/ HDMI2.0/Edp1.3/ EBC
	Support three simultaneous displays
	HDR10/HDR HLG/ HDR2SDR/SDR2HDR
	3D-LUT/P2I/CSC/BCSH/DITHER/CABC/GAMMA/COLORBAR
USB Interface	1 x USB3.0 HOST, 1 x USB3.0 OTG, 2 x USB2.0 HOST
PCIe3.0 PHY Interface	Support PCIe3.1(8Gbps) protocol and backward compatible with the PCIe2.1 and PCIe1.1 protocol
	Support two lane
	Support two PCIe controller with x1 mode or one PCIe controller with x2 mode
	Dual operation mode: Root Complex(RC)and End Point(EP)
Multi-PHY Interface	Support three multi-PHYs with PCIe2.1/SATA3.0/USB3.0/QSGMII controller
	USB3 Host controller + USB3 OTG controller
	PCIe2.1 controller / three SATA controller
Audio Interface	I2S0 with 8 channel TX and RX
	I2S1 with 8 channel TX and RX
	I2S2/I2S3 with 2 channel TX and RX
	PDM with 8channel
	TDM supports up to 8 channels for TX and 8 channels RX path
Connectivity	Compatible with SDIO 3.0 protocol
	GMAC 10/100/1000M Ethernet Controller
	Four on-chip SPI controllers

Ten on-chip UART controllers inside

Six on-chip I2C controllers

Smart Card with ISO-7816

Sixteen on-chip PWMs(PWM0~PWM15) with interrupt-based operation

Multiple groups of GPIO

8 single-ended input channels SARADC with 10bits resolution up to 1MS/s
sampling rate

其他参数

Operating	企业级: -20°C ~ 70°C
-----------	-------------------

temperature	工业级: -40°C ~ 85°C
-------------	-------------------

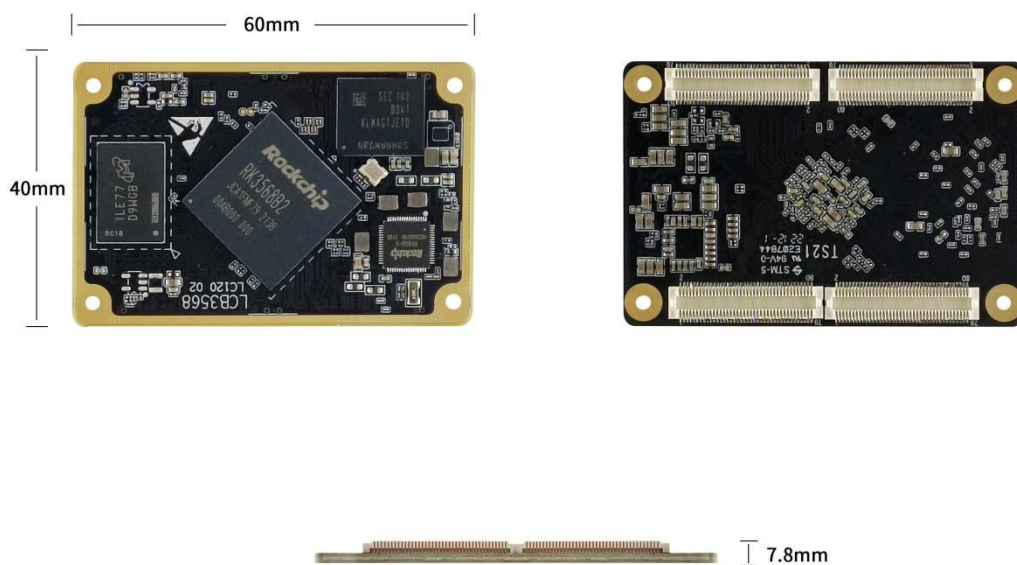
PCB interface	B2B, 320Pin
---------------	-------------

PCB layers	10 layers
------------	-----------

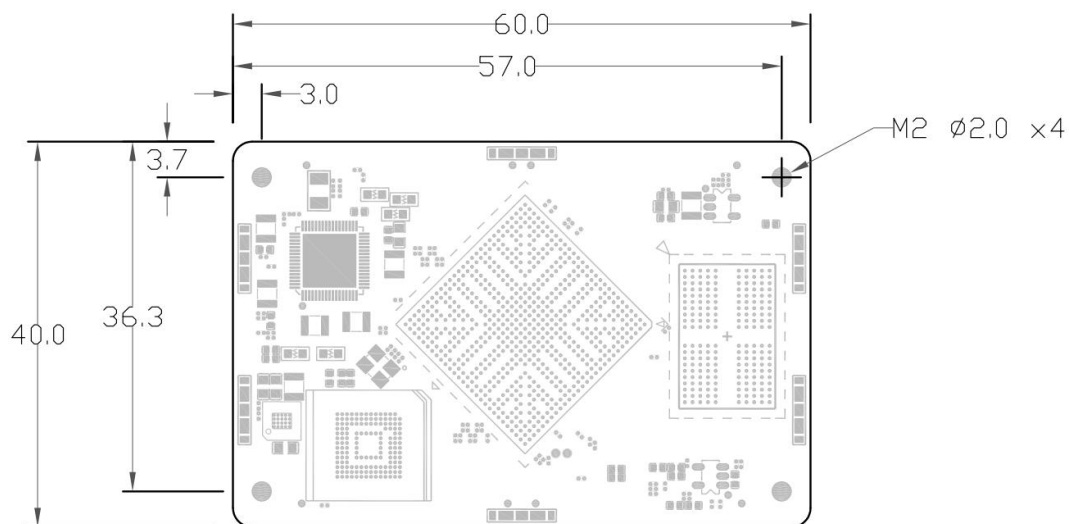
PCB size	L* W *H(mm): 60 *40 * 7.8 (PCB 板厚 1.6mm)
----------	--

4. 外观和尺寸结构

4.1 外观



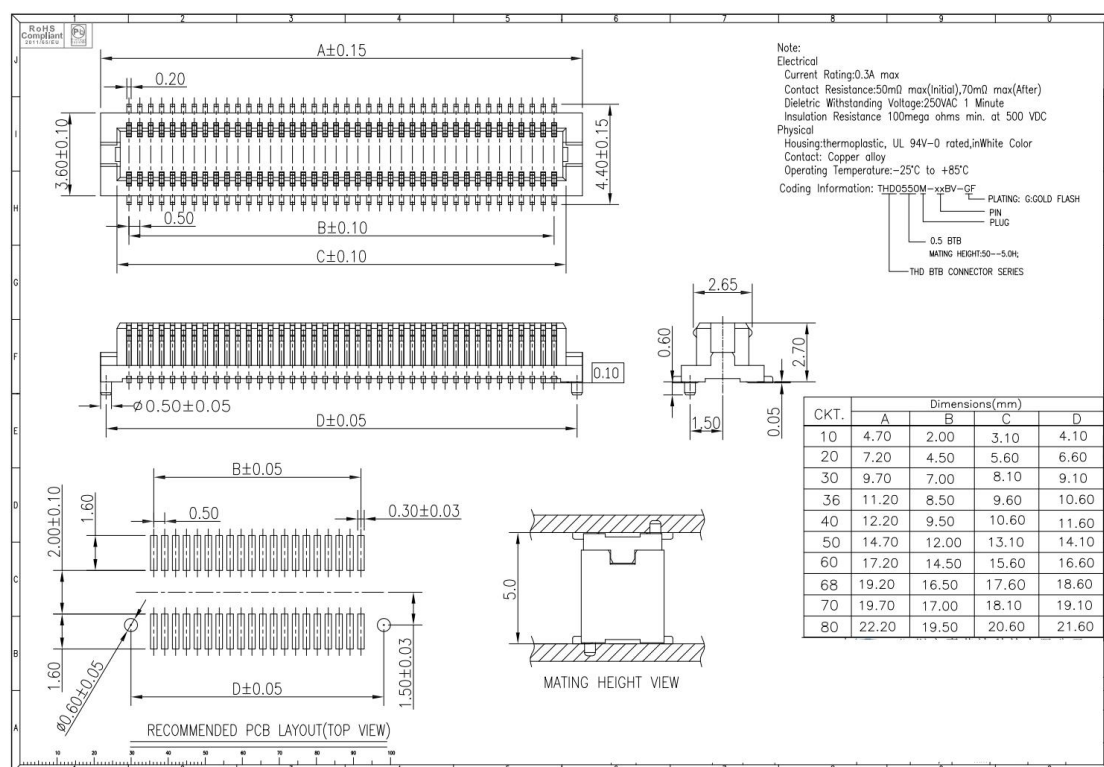
4.2 尺寸



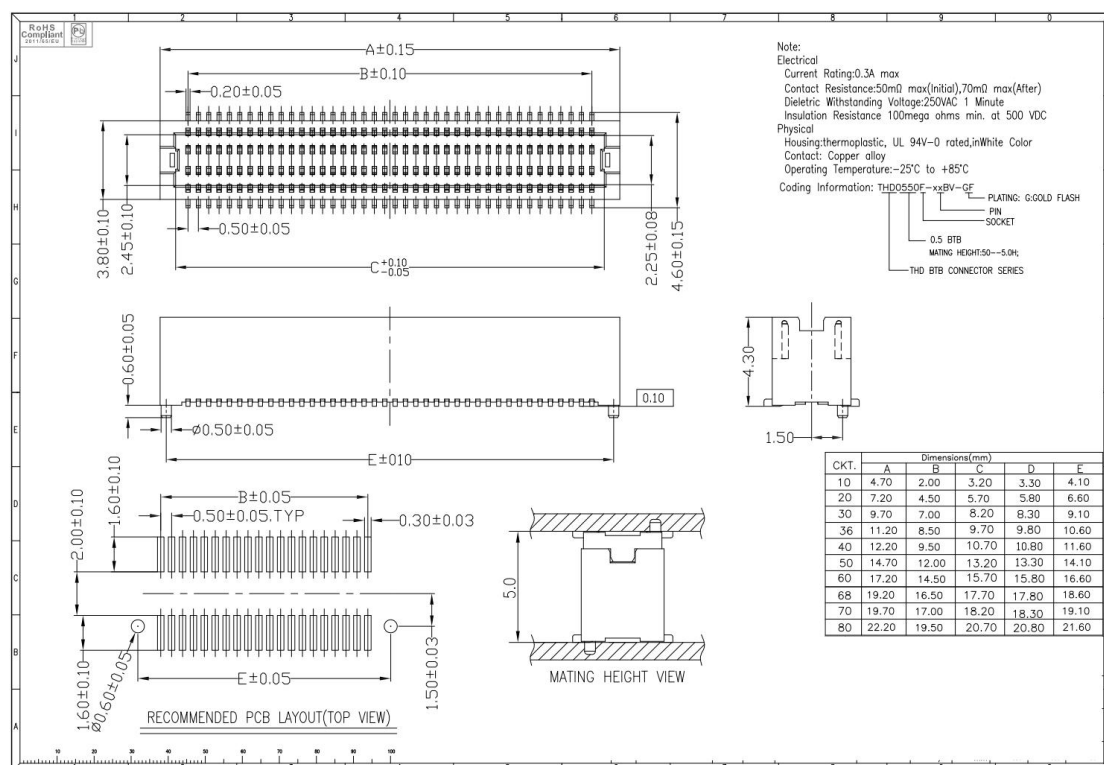
4.3 结构

LCB3568 采用 4 颗 0.5mm pitch 的 80Pin 板对板连接器公座，常规合高为 5mm，该连接器的尺

寸如下图所示:

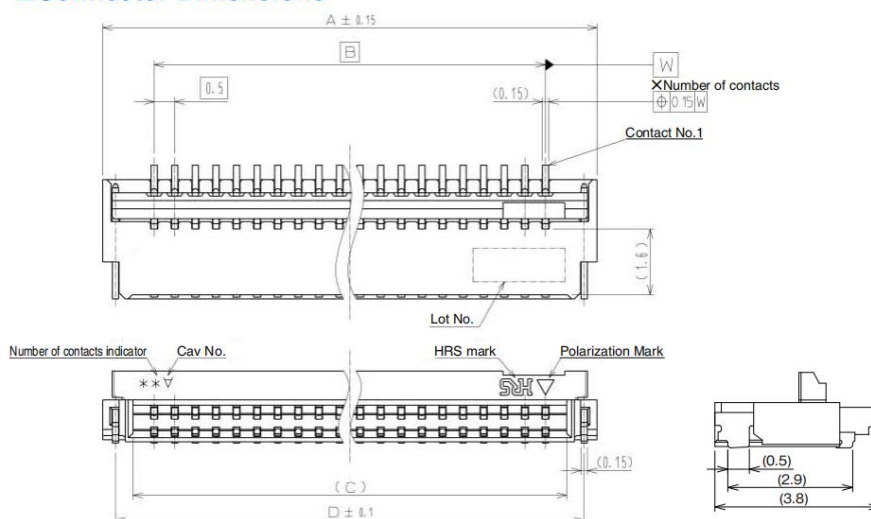


底板上应选择对应型号的母座连接器，常规合高为 5mm，相关规格如下图所示:



4 颗 FPC 连接器型号均为 HRS 的型号：FH34SRJ-30S-0.5SH，相关规格如下图所示：

■Connector Dimensions



Note 1 : The coplanarity of each terminal lead within specified dimension is 0.1mm Max.

Note 2 : Packaged on tape and reel only. Check packaging specification.

Note 3 : Slight variations in color of the plastic compounds do not affect form, fit or function of the connector.

Note 4 : After reflow, the terminal plating may change color, however this does not represent a quality issue.

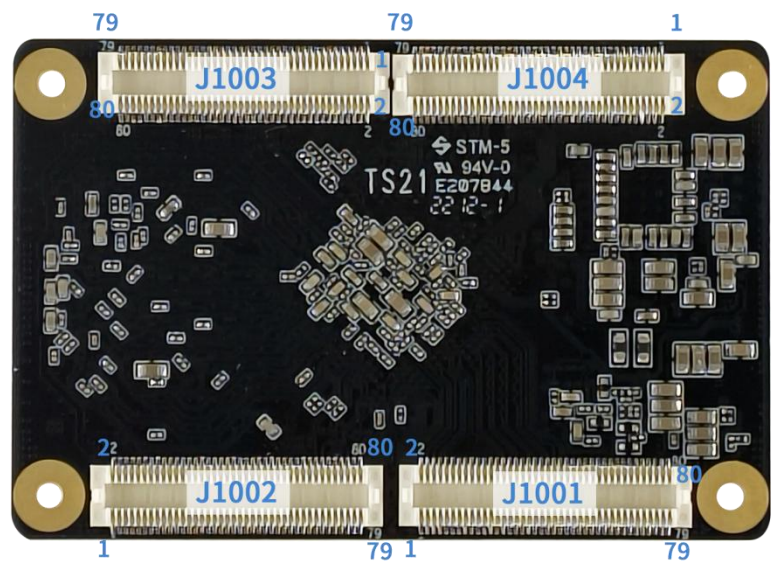
Unit : mm

Part No.	HRS No.	No. of Contacts	A	B	C	D
FH34SRJ-4S-0.5SH(50)	580-1238-7 50	4	4	1.5	2.53	3.38
FH34SRJ-5S-0.5SH(50)	580-1264-7 50	5	4.5	2	3.03	3.88
FH34SRJ-6S-0.5SH(50)	580-1236-1 50	6	5	2.5	3.53	4.38
FH34SRJ-7S-0.5SH(50)	580-1200-0 50	7	5.5	3	4.03	4.88
FH34SRJ-8S-0.5SH(50)	580-1231-8 50	8	6	3.5	4.53	5.38
FH34SRJ-9S-0.5SH(50)	580-1262-1 50	9	6.5	4	5.03	5.88
FH34SRJ-10S-0.5SH(50)	580-1251-5 50	10	7	4.5	5.53	6.38
FH34SRJ-11S-0.5SH(50)	580-1258-4 50	11	7.5	5	6.03	6.88
FH34SRJ-12S-0.5SH(50)	580-1253-0 50	12	8	5.5	6.53	7.38
FH34SRJ-14S-0.5SH(50)	580-1252-8 50	14	9	6.5	7.53	8.38
FH34SRJ-16S-0.5SH(50)	580-1259-7 50	16	10	7.5	8.57	9.38
FH34SRJ-18S-0.5SH(50)	580-1248-0 50	18	11	8.5	9.57	10.38
FH34SRJ-20S-0.5SH(50)	580-1256-9 50	20	12	9.5	10.57	11.38
FH34SRJ-22S-0.5SH(50)	580-1254-3 50	22	13	10.5	11.57	12.38
FH34SRJ-24S-0.5SH(50)	580-1255-6 50	24	14	11.5	12.57	13.38
FH34SRJ-26S-0.5SH(50)	580-1247-8 50	26	15	12.5	13.57	14.38
FH34SRJ-30S-0.5SH(50)	580-1232-0 50	30	17	14.5	15.57	16.38
FH34SRJ-34S-0.5SH(50)	580-1261-9 50	34	19	16.5	17.53	18.38
FH34SRJ-40S-0.5SH(50)	580-1260-6 50	40	22	19.5	20.53	21.38
FH34SRJ-45S-0.5SH(50)	580-1265-0 50	45	24.5	22	23.03	23.88
FH34SRJ-50S-0.5SH(50)	580-1266-2 50	50	27	24.5	25.53	26.38

Tape and reel packaging.

Order by number of reels.

5.接口定义



J1001

Pin Number	Pin Name
1	EDP_TX_D0P
2	EDP_TX_AUXN
3	EDP_TX_D0N
4	EDP_TX_AUXP
5	EDP_TX_D1P
6	GND7
7	EDP_TX_D1N
8	USB3_HOST1_DP
9	EDP_TX_D2P
10	USB3_HOST1_DM

11	EDP_TX_D2N
12	GND8
13	EDP_TX_D3P
14	USB3_OTG0_DP
15	EDP_TX_D3N
16	USB3_OTG0_DM
17	GND6
18	GND9
19	PCIE20_TXP
20	PCIE20_REFCLKP
21	PCIE20_TXN
22	PCIE20_REFCLKN
23	PCIE20_RXP
24	GND10
25	PCIE20_RXN
26	USB3_OTG0_SSRXP
27	GND5
28	USB3_OTG0_SSRXN
29	PCIE30_TX0P
30	USB3_OTG0_SSTXP
31	PCIE30_TX0N
32	USB3_OTG0_SSTXN

33	PCIE30_TX1P
34	GND11
35	PCIE30_TX1N
36	USB3_HOST1_SSRXP
37	PCIE30_RX0P
38	USB3_HOST1_SSRXN
39	PCIE30_RX0N
40	USB3_HOST1_SSTXP
41	PCIE30_RX1P
42	USB3_HOST1_SSTXN
43	PCIE30_RX1N
44	GND12
45	GND4
46	PCIE30_REFCLKP_IN
47	SDMMC0_DET_LGPIO0_A4u_3V3_PIO1
48	PCIE30_REFCLKN_IN
49	TP_RST_L_GPIO0_B6u_3V3_PMUIO2
50	GND13
51	PCIE_PWREN_H_GPIO0_D4d_1V8_PLLA
52	VGA_PWREN_H_GPIO0_D5d_1V8_PLLA
53	HDMIRX_PWREN_H_GPIO0_D6d_1V8_PLLA
54	DVP_PWREN0_H_GPIO0_B0u_3V3_PIO2

55	VGA_HPDIH_GPIOH_C0d_3V3_PIO2
56	4G_PWREN_H_GPIOH_C6d_3V3_PIO2
57	I2C1_SDA_TPGPIOH_B4u_3V3_PIO2
58	Working_LEDEN_H_GPIOH_B7d_3V3_pio2
59	I2C1_SCL_TP_GPIOH_B3u_3V3_PIO2
60	VCC3V3_SD_OUT_2A1
61	PWR_EN_RK809_VDC
62	EXT_EN_PMU
63	RK809_32KOUT
64	GND14
65	GND3
66	REFCLK_OUT_GPIOH_A0d_3V3_PIO1
67	GND2
68	GND15
69	VCC3V3_SYSIN_3
70	VCC3V3_SYSIN_4
71	VCC3V3_SYSIN_2
72	VCC3V3_SYSIN_5
73	VCC3V3_SYSIN_1
74	VCC3V3_SYSIN_6
75	GND1
76	GND16

77	VCC5V0_SYSIN_2
78	VCC5V0_SYSIN_3
79	VCC5V0_SYSIN_1
80	VCC5V0_SYSIN_4

J1002

Pin Number	Pin Name
1	GND1
2	GND17
3	VCC3V3_OUT1_2A1
4	VCC3V3_PMU_OUT2_0A4
5	VCC3V3_OUT2_2A1
6	VCC3V3_PMU_OUT1_0A4
7	VCC3V3_OUT3_2A1
8	VCCA1V8_PMU_OUT2_0A4
9	VCC1V8_OUT1_2A5
10	VCCA1V8_PMU_OUT1_0A4
11	VCC1V8_OUT2_2A5
12	GND16
13	VCC1V8_OUT3_2A5
14	VCCIO_ACODEC_OUT_0A4
15	GND2
16	GND15

17	SARADC_VIN6
18	I2C3_SCL_M0_GPIO1_A1u_3V3_IO1
19	SARADC_VIN7
20	I2C3_SDA_M0_GPIO1_A0u_3V3_IO1
21	GND3
22	VCCA1V8_IMAGE_OUT_0A4
23	BT_REG_ON_H_GPIO2_B7d_IO4
24	LCD0_PWREN_H_GPIO0_C7d_3V3_PIO2
25	SDMMC0_D2_GPIO1_D7u_SDIO
26	USB_OTG_PWREN_H_GPIO0_A5d_3V3_PIO1
27	SDMMC0_D3_GPIO2_A0u_SDIO
28	PWM3_IR_GPIO0_C2d_3V3_PIO2
29	GND4
30	GND14
31	USB3_OTG0_ID
32	SARADC_VIN4
33	USB3_OTG0_VBUSDET
34	SARADC_VIN5
35	GND5
36	SARADC_VIN3_BOM_ID
37	SDMMC0_D1_GPIO1_D6u_SDIO
38	SARADC_VIN0_KEY/RECOVERY

39	SDMMC0_D0_GPIO1_D5u_SDIO
40	GND13
41	SDMMC0_CLK_GPIO2_A2d_SDIO
42	FSPI_CLK/FLASH_ALE_GPIO1_D0d_1V8_IO2
43	SDMMC0_CMD_GPIO2_A1u_SDIO
44	FSPI_D3/FLASH_CS1n_GPIO1_D4u_1V8_IO2
45	GND6
46	SARADC_VIN1_HW_ID
47	UART1_RTSn_M0_GPIO2_B5u_IO4
48	GND12
49	UART1_TX_M0_GPIO2_B4u_IO4
50	VCCA_1V8OUT_0A4
51	UART1_RX_M0_GPIO2_B3u_IO4
52	GND11
53	UART1_CTSn_M0_GPIO2_B6u_IO4
54	SDMMC1_D2_GPIO2_A5u_IO4
55	SDMMC1_D1_GPIO2_A4u_IO4
56	SDMMC1_D3_GPIO2_A6u_IO4
57	SDMMC1_D0_GPIO2_A3u_IO4
58	SDMMC1_CMD_GPIO2_A7u_IO4
59	HOST_WAKE_BT_H_GPIO2_C1d_IO4
60	SDMMC1_CLK_GPIO2_B0d_IO4

61	WIFI_WAKE_HOST_H_GPIO2_B2u_IO4
62	GND10
63	WIFI_REG_ON_H_GPIO2_B1d_IO4
64	PDM_SDI1_M0_ADC_GPIO1_B2d_3V3_IO1
65	BT_WAKE_HOST_H_GPIO2_C0d_IO4
66	PDM_CLK1_M0_ADC_GPIO1_A4d_3V3_IO1
67	GND7
68	PDM_SDI2_M0_ADC_GPIO1_B1d_3V3_IO1
69	CLK32K_OUT1_WIFI_GPIO2_C6d_IO4
70	PDM_SDI3_M0_ADC_GPIO1_B0d_3V3_IO1
71	GND8
72	GND9
73	SOC_PCM_CLK_GPIO2_C2d_IO4
74	FSPI_CS0n/FLASH_CS0n_GPIO1_D3u_1V8_IO2
75	SOC_PCM_IN_GPIO2_C5d_IO4
76	FSPI_D1/FLASH_RDn_GPIO1_D2u_1V8_IO2
77	SOC_PCM_OUT_GPIO2_C4d_IO4
78	FSPI_D0/FLASH_RDY_GPIO1_D1u_1V8_IO2
79	SOC_PCM_SYNC_GPIO2_C3d_IO4
80	SARADC_VIN2_HP_HOOK

J1003

Pin Number	Pin Name
------------	----------

1	I2S3_SCLK_M0
2	UART9_TX_M1
3	I2S3_SDO_M0
4	PCIE30X2_WAKEN_M1
5	I2S3_SDI_M0
6	PCIE20_WAKEN_M1
7	RESETN
8	PCIE30X2_PERSTN_M1
9	UART4_TX_M1
10	I2S3_MCLK_M0
11	UART4_RX_M1
12	I2S3_LRCK_M0
13	GPIO3_B6
14	LCD_EN_H_GPIO3_C6
15	I2C5_SCL_3V3
16	GMAC0_RSTN_GPIO3_B7
17	I2C5_SDA_3V3
18	SPK_CTL_H_GPIO3_C3
19	RS485_DIR_GPIO3_B5
20	UART7_TX_M1
21	GMAC0_INT/PMEB_GPIO3_C0
22	CAN1_TX

23	PCIE20_PERSTN_M1
24	HP_DET_L_GPIO3_C2
25	UART7_RX_M1
26	MIPI_CAM0_PDN_L_GPIO3_D5
27	MIPI_CAM1_PDN_L_GPIO3_D3
28	GND
29	HDMIRX_DET_L_GPIO3_D0
30	GMAC1_TXD3_M1
31	MIPI_CAM0_RST_L_GPIO3_D4
32	GND
33	GND
34	GMAC1_TXCLK_M1
35	GMAC1_RXD2_M1
36	GND
37	GMAC1_TXD0_M1
38	GMAC1_TXD2_M1
39	GMAC1_TXD1_M1
40	GMAC1_TXEN_M1
41	GMAC1_RXCLK_M1
42	GMAC1_MDIO_M1
43	GMAC1_RXD0_M1
44	GMAC1_MDC_M1

45	GMAC1_RXDV_CRS_M1
46	GMAC1_RXD3_M1
47	GND
48	GMAC1_RXD1_M1
49	USB2_HOST3_DM
50	GND
51	USB2_HOST3_DP
52	PCIE30X1_WAKEN_M1
53	GND
54	PCIE30X1_CLKREQN_M1
55	USB2_HOST2_DM
56	PCIE30X1_PERSTN_M1
57	USB2_HOST2_DP
58	LCD_RST_L_GPIO3_C7
59	GND
60	MIPI_CAM1_RST_L_GPIO3_D2
61	GND
62	I2C2_SDA_1V8
63	GND
64	I2C2_SCL_1V8
65	HDMI_TX_HPDI
66	I2C4_SDA_1V8

67	GMAC1_RSTN_GPIO3_B0
68	GND
69	GMAC1_INT/PMEB_GPIO3_A7
70	GMAC1_MCLKINOUT_M1
71	PCIE30X1_PRSENT_L_GPIO3_A0
72	GND
73	PCIE30X2_CLKREQN_M1
74	CIF_CLKOUT
75	PCIE30X2_PRSENT_L_GPIO2_D7
76	GND
77	PCIE20_CLKREQN_M1
78	I2C4_SCL_1V8
79	HDMITX_CEC_M0
80	GND

J1004

Pin Number	Pin Name
1	GND
2	VCC3V3_PMU_RTC
3	MIC1_INN
4	USB_HOST_PWREN_H_GPIO0_A6
5	MIC1_INP
6	LCD0_BL_PWM4

7	GND
8	WIFI_PWREN_L_GPIO0_C1
9	HPR_OUT
10	TP_INT_L_GPIO0_B5
11	HP_SNS
12	LCD1_PWREN_H_GPIO0_C5
13	HPL_OUT
14	LCD1_BL_PWM5
15	GND
16	UART2_TX_M0_DEBUG
17	SPKP_OUT
18	UART2_RX_M0_DEBUG
19	SPKN_OUT
20	RK809_PWRON
21	GND
22	GND
23	HDMI_TX2P_PORT
24	HDMI_TXCLKN_PORT
25	HDMI_TX2N_PORT
26	HDMI_TXCLKP_PORT
27	HDMI_TX0P_PORT
28	GND

29	HDMI_TX0N_PORT
30	HDMI_TX1N_PORT
31	GND
32	HDMI_TX1P_PORT
33	MIPI_DSI_TX0_D1N/LVDS_TX0_D1N
34	GND
35	MIPI_DSI_TX0_D1P/LVDS_TX0_D1P
36	MIPI_DSI_TX1_D0P
37	MIPI_DSI_TX0_D2N/LVDS_TX0_D2N
38	MIPI_DSI_TX1_D0N
39	MIPI_DSI_TX0_D2P/LVDS_TX0_D2P
40	MIPI_DSI_TX1_D1P
41	MIPI_DSI_TX0_D0N/LVDS_TX0_D0N
42	MIPI_DSI_TX1_D1N
43	MIPI_DSI_TX0_D0P/LVDS_TX0_D0P
44	MIPI_DSI_TX1_D3P
45	GND
46	MIPI_DSI_TX1_D3N
47	MIPI_DSI_TX0_CLKN/LVDS_TX0_CLKN
48	GND
49	MIPI_DSI_TX0_CLKP/LVDS_TX0_CLKP
50	MIPI_DSI_TX1_CLKP

51	GND
52	MIPI_DSI_TX1_CLKN
53	MIPI_DSI_TX0_D3N/LVDS_TX0_D3N
54	GND
55	MIPI_DSI_TX0_D3P/LVDS_TX0_D3P
56	MIPI_DSI_TX1_D2P
57	GND
58	MIPI_DSI_TX1_D2N
59	MIPI_CSI_RX_D1P
60	GND
61	MIPI_CSI_RX_D1N
62	MIPI_CSI_RX_D0N
63	GND
64	MIPI_CSI_RX_D0P
65	MIPI_CSI_RX_CLK0P
66	MIPI_CSI_RX_D2N
67	MIPI_CSI_RX_CLK0N
68	MIPI_CSI_RX_D2P
69	MIPI_CSI_RX_CLK1P
70	MIPI_CSI_RX_D3N
71	MIPI_CSI_RX_CLK1N
72	MIPI_CSI_RX_D3P

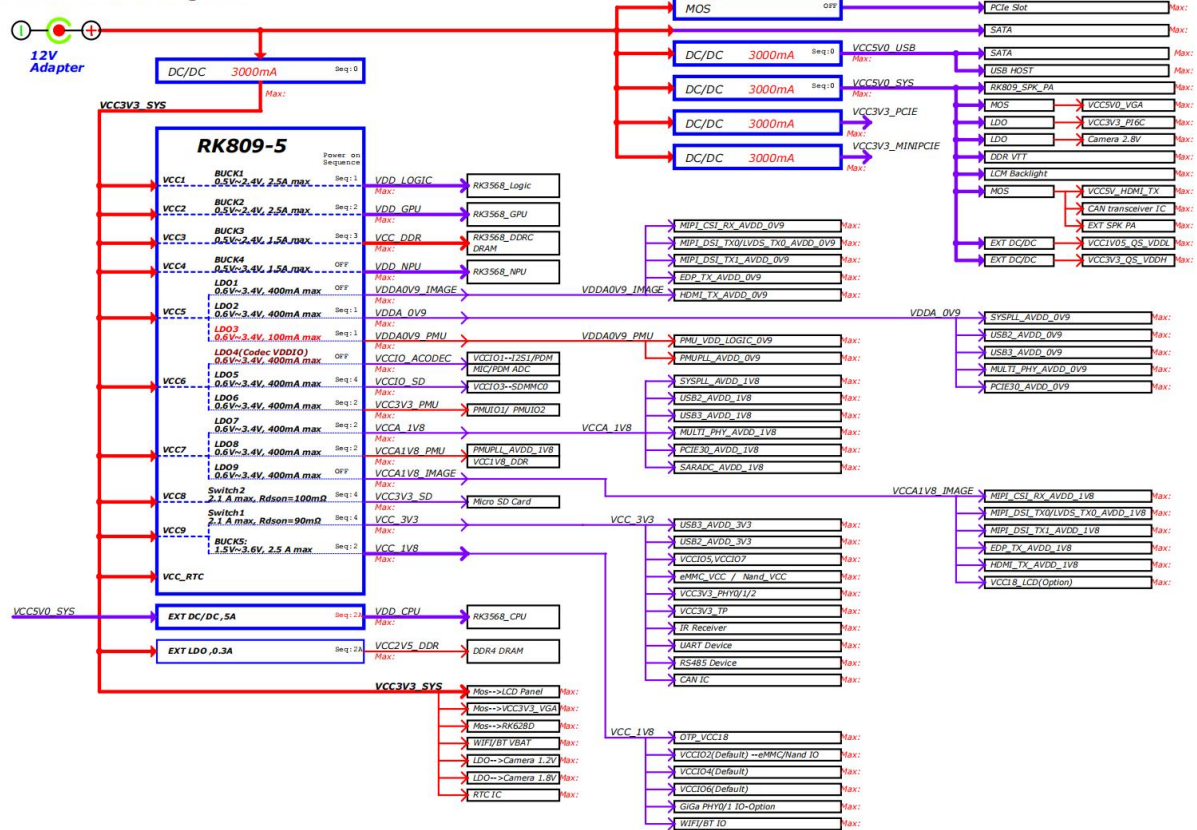
73	GND
74	GND
75	SATA2_ACT_LED
76	HDMIRX_RST_L_GPIO4_D2
77	HDMITX_SCL
78	CAN1_RX
79	HDMITX_SDA
80	UART9_RX_M1

电源供电电压参数

Symbol	Parameter	Current Typ	Voltage(V)		
			Min	Typ	Max
VCC3V3_SYSIN_*	Main power input for LCB3568	3A	3.2	3.3	3.4
VCC5V0_SYSIN_*	Main power input for LCB3568	2A	4.9	5	5.2
VCC3V3_PMU_RTC	Backup voltage input for RTC and power on detect	0.01A	3.2	3.3	3.4
VCC3V3_OUT*_2A1	3.3V output for carrier board use	1.5A	3.2	3.3	3.4
VCC3V3_PMU_OUT*_0A4	3.3V output for carrier board use	0.3A	3.2	3.3	3.4
VCC1V8_OUT*_2A5	1.8V output for carrier board use	1.5A	1.7	1.8	1.9
VCCA1V8_PMU_OUT*_0A4	1.8V output for carrier board use	0.3A	1.7	1.8	1.9
VCCA_1V8OUT_0A4	1.8V output for carrier board use	0.3A	1.7	1.8	1.9
VCCIO_ACODEC_OUT_0A4	3.3V output for carrier board use	0.3A	3.2	3.3	3.4
VCCA1V8_IMAGE_OUT_0A4	1.8V output for carrier board use	0.3A	1.7	1.8	1.9
VCC3V3_SD_OUT_2A1	3.3V output for carrier board use	1.5A	3.2	3.3	3.4
EXT_EN_PMU	Output enable for external BUCK	-	0	3.3	3.4
PWR_EN_RK809_VDC(threshold)	System Power on signal input	2.8	3	3.3	12

电源供电拓扑图

Default Power Diagram



6.应用场景



人工智能



机器视觉



工业控制



能源电力



智慧平板



虚拟现实 VR



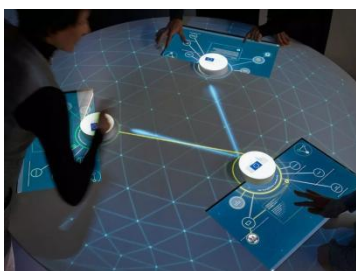
智慧物流



新零售



智慧商显



物体识别



车载终端



门禁监控

7.订购型号

产品型号	状 态	CPU 型号	DDR 容量	eMMC 容量	工作温度
LC120216Y4	量产	RK3568	2GB	16GB	-20℃ - 70℃
LC120432T4	量产	RK3568	4GB	32GB	-20℃ - 70℃
LC120864T4	量产	RK3568	8GB	64GB	-20℃ - 70℃
LC121108T4	量产	RK3568J	1GB	8GB	-40℃ - 85℃
LC121216T4	量产	RK3568J	2GB	16GB	-40℃ - 85℃
LC121432T4	量产	RK3568J	4GB	32GB	-40℃ - 85℃

*非标定制请邮件咨询 sales@neardi.com

8.关于临滴

上海临滴科技有限公司成立于 2014 年，国家级高新技术企业，瑞芯微战略合作伙伴，黑芝麻智能授权代理商。支持多种芯片平台 Rockchip 瑞芯微、HISI 海思、NVIDIA 英伟达、车控、WIFI 模块。专注于企业级开源硬件平台的研发和生产，为客户提供核心模块、行业板、开发板、触控平板和工控主机等产品。公司坚持技术创新和专业服务的核心理念，以临滴科技的技术优势和行业经验，帮助合作伙伴实现产品快速量产。



公众号



淘宝店铺



B 站

Rockchip 瑞芯微-产品线

核心模块



LCB3588/J



LCH3576



LCH3562



LCH3506



LCB1126B

开发板



LKD3588/J



LKD3576



LKD3562



LKD3506



LKD1126B

智能计算机



LPB3588



LPM3588



LPC3588



LPB3568



LPM3568

HiSi 海思-产品线



LCB3403V100



LCB3519AV200



LKD3403V100



LBA3403V100



LPA3403V100

NVIDIA 英伟达-产品线



LKD Orin Nano



LKD Orin NX



LPD Orin NX



LPD Orin Nano

车控-产品线



LPA3588



LPS3576



LPA3568



LPA3399Pro



LPS3399Pro

WIFI6 模块-产品线



FD7352S



FD7352P



FD7352U



FD7155U



FD7256S