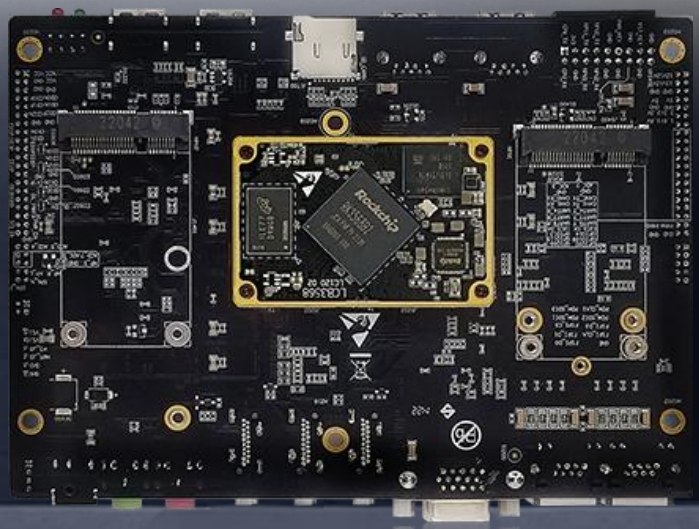
neardi临滴

LKD3568 开发板

产品手册

V2.1



上海临滴科技有限公司

www.neardi.com

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版本历史

版本	日期	说明
V1.0	2022/8/23	初始版本
V2.0	2024/1/23	产品手册优化
V2.1	2024/7/29	数据更新

目录

1.产品介绍

LKD3568 是基于瑞芯微 RK3568 芯片平台精心设计的一款多功能行业应用板，其由我司的 LCB3568 核心模块与底板组成。核心模块与底板采用 B2B 连接器的方式连接，并通过 4 颗 M2 的螺丝固定，稳定可靠。整板功能多样，接口丰富，可广泛应用于多种场景。

LKD3568 板载 2 路 USB3.0 和 2 路 USB2.0 接口，可以外接多个 USB 摄像头；板载 3 个 mini-PCIe 接口，除了可以外接 4G/5G 模块外还可以外接我司基于 RK1808 开发的 mini-PCIe 接口 NPU 计算卡，与多路摄像头组合成支持最高 6.0TOPS 算力的人工智能视觉计算板卡；另外，LKD3568 还支持双频 WIFI6、BT5.0、2 路 1000M 以太网、UART、I2C、CANBUS 等常用通讯模块接口；支持 2 路 HDMI 输出、1 路 VGA 输出，1 路双通道 LVDS 等多种显示接口并支持多屏异显；另可选配支持 1 路 HDMI 输入或 mipi-csi 摄像头输入。

LKD3568 支持 Android、buildroot，Debian 及 Ubuntu 系统，具备高性能、高可靠性、高扩展性等优势，为用户开放系统源码。用户可基于此款产品二次开发和定制，我司为开发者和企业用户提供全方位的技术支持，使其高效的完成研究开发工作，大量缩短产品研发量产周期。

2. 功能概述

高性能处理器

CPU	RK3568,22nm,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

接口丰富

多种显示接口：VGA，HDMI1.4，HDMI2.0，双通道 LVDS，支持多屏异显

3 路 UART 接口和 1 路 I2C 接口，支持扩展 2 路 CANBUS 接口

2 路千兆网口，双频 WIFI6

3 路 mipi PCIe 接口，可扩展 4/5G 模块，可扩展算力卡

1 路 M.2 M-Key 接口，支持外接 NVMe 协议 SSD

2 路 Type-A USB3.0，2 路 USB2.0 接口

可扩展 **NPU** 算力

NPU 算力可扩展至 10TOPS；可外接 3 块 3TOPS 算力卡

提供 Demo 程序

操作系统

Android

Linux （Buildroot / Debian / Ubuntu）

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 Datesheet

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	RK3568,22nm,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，可选 1GB/2GB/4GB/8GB(Optional)
eMMC	eMMC 5.1，可选 8GB/16GB/32GB/64GB/128GB (Optional)
PMU	RK806
系统	Android / Ubuntu / Buildroot / Debian

硬件参数

Power	DC12V - 3A (DC Jack 5.5*2.1mm / PH2.0 wafer connector)
USB	2*Type-A USB3.0
	2*Type-A USB2.0
Display output	Type-A HDMI 2.0 up to 4K@60fps

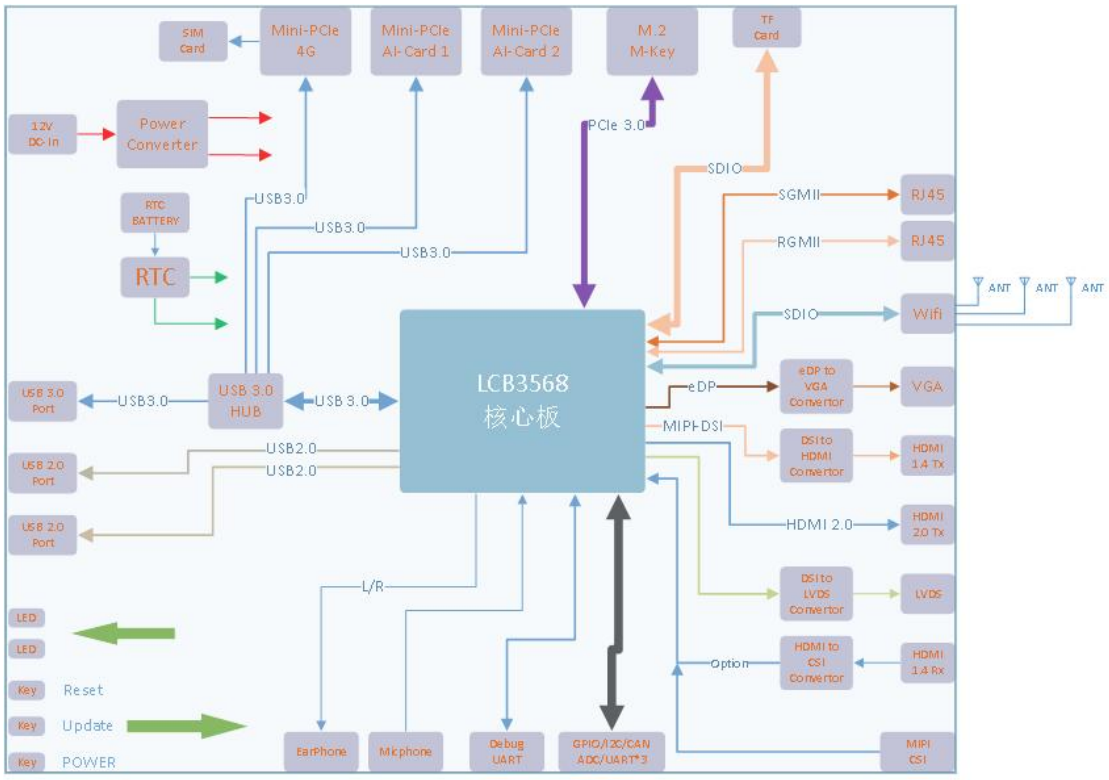
	Type-A HDMI 1.4 up to 1920*1080@60fps
	VGA up to 1920*1080@30fps
	Duel channel LVDS up to 1080P@60HZ
Audio	φ3.5mm earphone Jack with L/R audio out
	φ3.5mm micphone Jack with Mic in
	Speaker output with 1.5W@8Ω
	HDMI audio out
Display input	HDMI Input interface; MIPI-CSI Camera Interface
Mini-PCIe	1*mini PCIe for 2G/3G/4G/5G LTE module,
	2*mini PCIe for AI cards
SD card	Compatible with SDIO 3.0 protocol, system boot up supported
SIM card	Micro sim slot for Mini-PCIe 4G LTE module
RJ-45	2*10/100/1000 Ethernet
RTC	2Pin GH1.25 connector, RTC power on and off supported
Others	3*Uart, 2*CAN BUS, 1*I2C, 6*ADC, 2*PWM, lots of GPIOs
Power output	12V, 5V, 3.3V
Others	4*ADC, 1*I2C(CTP supported), 4*Switch signal Input, 4*Switch signal Output,

其他参数

尺寸	L*W*H(mm) 160*115*25.7
温度	工作温度 -10 - 70℃
重量	约 171.5g（不含外设）

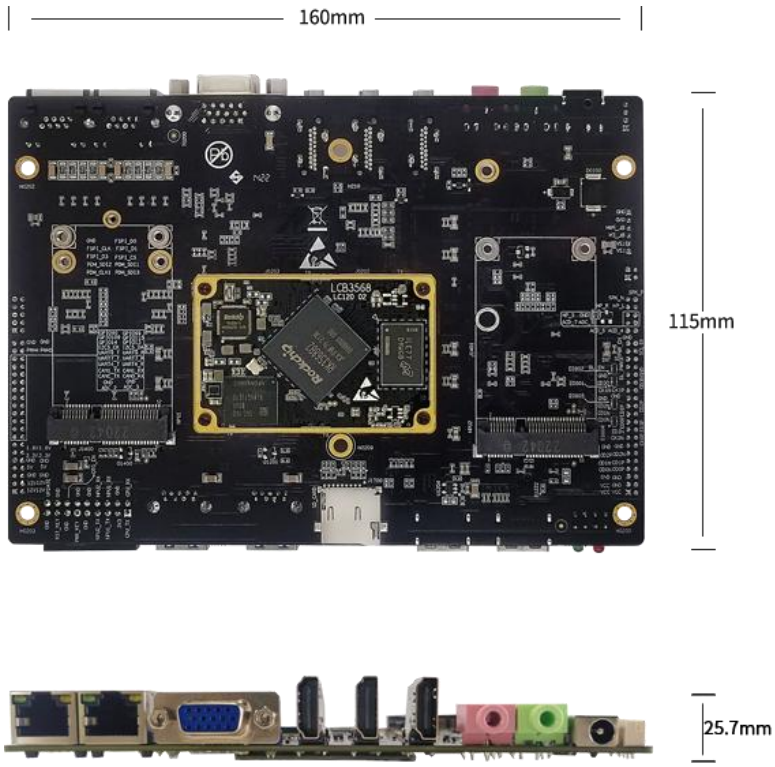
功耗	典型功耗：4.7W

产品框图

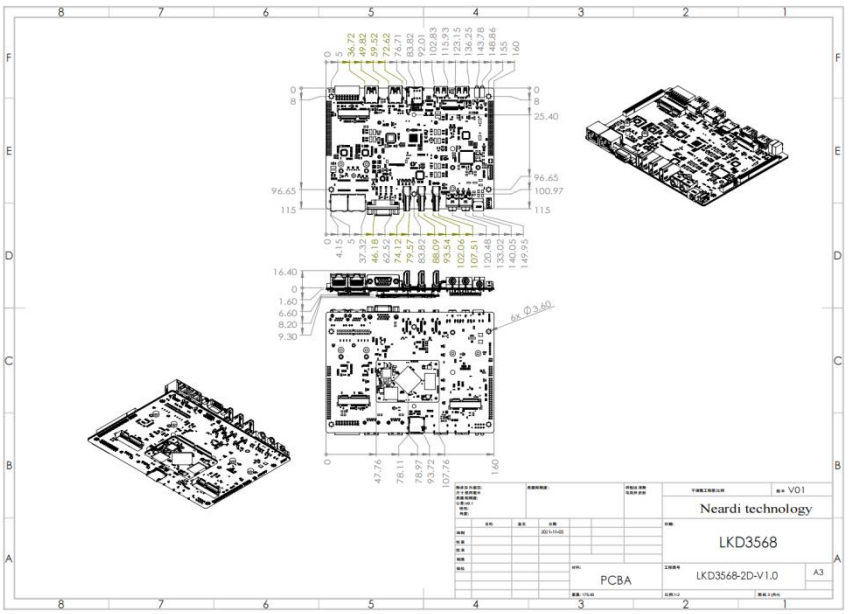


4. 外观和尺寸

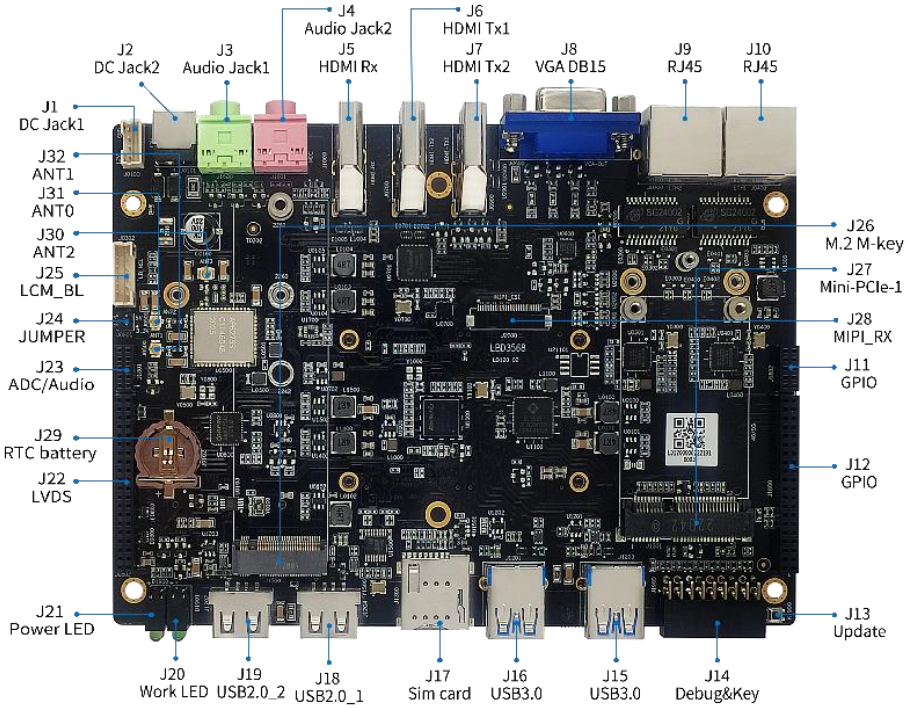
4.1 外观



4.2 尺寸



5.接口定义


J1
DC Jack1
J2
DC Jack2
J3
Audio Jack1
J4
Audio Jack2
J5
HDMI Rx
J6
HDMI Tx1
J7
HDMI Tx2
J8
VGA DB15
J9
RJ45
J10
RJ45
J32
ANT1
J31
ANT0
J30
ANT2
J25
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J26
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J27
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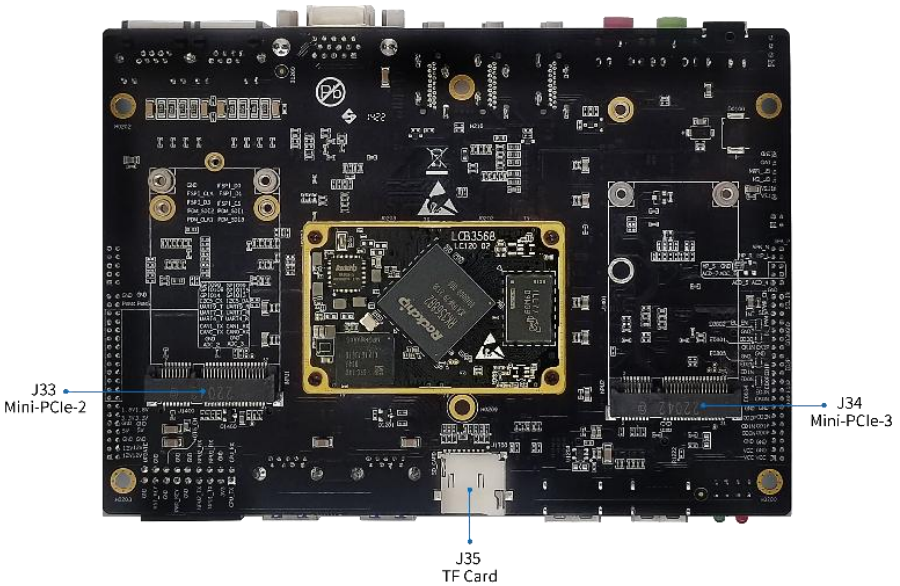
J28
MIPI_RX
J11
GPIO
J12
GPIO
J13
Update


J33
Mini-PCIe-2
J34
Mini-PCIe-3
J35
TF Card

Part reference	Part Name	Part Specifications	Part Description
J1	DC Jack1	PH2.0mm 4pin wafer	DC12V-3A power in
J2	DC Jack2	DC 5.5*2.1mm	Main power supply, DC12V – 3A
J3	Audio Jack1	φ3.5mm 3-L Jack	L/R audio out
J4	Audio Jack2	φ3.5mm 3-L Jack	Micphone In
J5	HDMI Rx	Type-A HDMI 1.4	HDMI 1.4 Receiver
J6	HDMI Tx1	Type-A HDMI 1.4	HDMI 1.4 Transmitter up to 4K@30HZ
J7	HDMI Tx2	Type-A HDMI 2.0	HDMI 2.0 Transmitter up to 4K@60HZ
J8	VGA DB15	VGA Socket	VGA Output
J9	RJ45	Gigabit Ethernet	10/100/1000-Mbps data transfer rates
J10	RJ45	Gigabit Ethernet	10/100/1000-Mbps data transfer rates
J11	GPIO	PH2.0mm 2x5pin header	PDM，SPI and GPIOs
J12	GPIO	PH2.0mm 2x20pin header	Power,I2C,UART,Can,ADC,GPIOs
J13	Update	push-button	Key for system recovery or other function
J14	Debug&Key	PH2.54mm 2x9pin Receptacle	Debug and Key and 3.3V out
J15	USB3.0	Type-A USB3.0	USB3.0 / Debug
J16	USB3.0	Type-A USB3.	USB3.0
J17	Sim card	Micro Sim card slot	Micro push-to-push sim card
J18	USB2.0_1	Type-A USB2.0	The first USB2.0 for external devices
J19	USB2.0_2	Type-A USB2.0	The second USB2.0 for external devices
J20	Work LED	Green led *2	Work status and 3G/4G Module Status Indicator
J21	Power LED	Red and Green LEDs	Power status indicate
J22	LVDS	PH2.0mm 2x20pin header	Dual channel 24bit LVDS output
J23	ADC/Audio	PH2.0mm 2x5pin header	ADC In and Audio Out
J24	JUMPER	PH2.0mm 2x2pin header	Voltage Select for LVDS Panel Power
J25	LCM_BL	PH2.0mm 6pin wafer	The first LCM backlight control
J26	M.2 M-key	Standard M.2 M-key connector	M.2 NGFF (M-KEY) with PCIE V3.0 x2
J27	Mini-PCIe-1	Mini-PCIe 52pin socket	For 2G/3G/4G LTE module used
J28	MIPI_RX	30pin 0.5mm pitch FPC connector	MIPI-CSI 4lane or 2*2Lane for external cameras
J29	RTC battery	CR1220 Socket	RTC battery power input 3.0V
J30	ANT2	I-PXE,MHF Φ=2.0	RF Port 2 for Bluetooth
J31	ANT0	I-PXE,MHF Φ=2.0	RF Port 0 for WiFi
J32	ANT1	I-PXE,MHF Φ=2.0	RF Port 1 for Wifi
J33	Mini-PCIe-2	Mini-PCIe 52pin socket	For USB3,0 AI Card 1
J34	Mini-PCIe-3	Mini-PCIe 52pin socket	For USB3,0 AI Card 2
J35	TF Card	Push-Push TF socket	TF Card

6.引脚定义

DC Jack1（J1）

Pin number	Pin name	Voltage level	Notice
1	DC-IN	12V	-
2	DC-IN	12V	-
3	GND	GND	-
4	GND	GND	-

GPIO（J11）

Pin number	Pin name	Voltage level	Notice
1	PDM_CLK1_M0_SOC	3.3V	GPIO-A4-d
2	PDM_SDI3_M0_ADC	3.3V	GPIO1_B0_d
3	PDM_SDI2_M0_ADC	3.3V	GPIO1_B1_d
4	PDM_SDI1_M0_ADC	3.3V	GPIO1_B2_d
5	FSPI_D3/FLASH_CS1n	3.3V	GPIO1_D4_u
6	FSPI_CS0n/FLASH_CS0n	3.3V	GPIO1_D3_u
7	FSPI_CLK/FLASH_ALE	3.3V	GPIO1_D0_d
8	FSPI_D1/FLASH_RDn	3.3V	GPIO1_D2_u
9	GND	GND	-
10	FSPI_D0/FLASH_RDY	3.3V	GPIO1_D1_u

GPIO（J12）

Pin number	Pin name	Voltage level	Notice
1	VCC12V_DCIN	12V	-
2	VCC12V_DCIN	12V	-
3	VCC12V_DCIN	12V	-
4	VCC12V_DCIN	12V	-
5	GND	GND	-
6	GND	GND	-
7	VCC5V0_EXT	5	5V/2A Output
8	VCC5V0_EXT	5	5V/2A Output
9	GND	GND	-
10	GND	GND	-
11	VCC3V3_EXT	+3.3V	3.3V/2A Output
12	VCC3V3_EXT	+3.3V	3.3V/2A Output
13	VCCA1V8_EXT	+1.8V	1.8V/200mA Output
14	VCCA1V8_EXT	+1.8V	1.8V/200mA Output
15	SARADC_VIN2_HP_HOOK	0～1.8V	ADC Input
16	SARADC_VIN3	0～1.8V	ADC Input
17	GND	GND	-

18	GND	GND	-
19	CAN0_TX	3.3V	Can be alternated as I2C1-SCL
20	CAN0_RX	3.3V	Can be alternated as I2C1-SDA
21	CAN1_TX	3.3V	GPIO4_C3_d
22	CAN1_RX	3.3V	GPIO4_C2_d
23	UART4_TX_M1	3.3V	GPIO3_B2_d
24	UART4_RX_M1	3.3V	GPIO3_B1_d
25	UART7_TX_M1	3.3V	GPIO3_C4_d
26	UART7_RX_M1	3.3V	GPIO3_C5_d
27	UART9_TX_M1	3.3V	GPIO4_C5_d
28	UART9_RX_M1	3.3V	GPIO4_C6_d
29	I2C5_SCL_3V3	3.3V	GPIO3_B3_d
30	I2C5_SDA_3V3	3.3V	GPIO3_B4_d
31	TP_RESET_L	3.3V	GPIO0_B6_u
32	TP_INT_L	3.3V	GPIO0_B5_u
33	GPIO3_B5	3.3V	GPIO3_B5_d
34	SPK_CTL_H	3.3V	GPIO3_C3_d
35	PCIE30X1_CLKREQn_M1	3.3V	GPIO2_D2_d
36	I2S3_MCLK_M0	3.3V	GPIO3_A2_d
37	LCD0_BL_PWM4	3.3V	GPIO0_C3_d
38	LCD1_BL_PWM5	3.3V	GPIO0_C4_d
39	GND	GND	-
40	GND	GND	-

Update Key（J13）

Pin number	Pin name	Voltage level	Notice
1	SARADC_VIN0	0~1.8V	Key for system recovery or other function

Debug&Key（J14）

Pin number	Pin name	Voltage level	Notice
1	CPU_DBG_TX	3.3V	Used for CPU debug,1.5Mbps Data rate
2	CPU_DBG_RX	3.3V	Used for CPU debug,1.5Mbps Data rate
3	VCC3V3_PMU	3.3V	3.3V/1A Output
4	GND	GND	-
5	NPU1_TX	3.3V	Reserved for NPU1 debug,1.5Mbps Data rate
6	NPU1_RX	3.3V	Reserved for NPU2 debug,1.5Mbps Data rate
7	NPU2_TX	3.3V	Reserved for NPU2 debug,1.5Mbps Data rate
8	NPU2_RX	3.3V	Reserved for NPU2 debug,1.5Mbps Data rate
9	GND	GND	-

10	GND	GND	-
11	PWR_KEY	3.3V	Power on/off signal, Pulled up internally by 30K Ohm resistor
12	GND	GND	-
13	GND	-	-
14	USB30_OTG_EN	-	Pulled up internally, Pull Low to make USB port (J15) enter OTG mode. Otherwise, It' ll keep as Device mode.
15	RST_KEY	-	Pulled up internally, Pull Low to reset the entire system.
16	GND	GND	-
17	GND	GND	-
18	UPDATE_KEY	-	Key for system recovery or other function

Work LED（J20）

Pin number	Pin name	Voltage level	Notice
1	LED1+	-	Green LED for 3G/4G Modue
2	LED1-	-	-
3	LED2+	-	Green LED for system status
4	LED2-	-	-

PowerLED（J21）

Pin number	Pin name	Voltage level	Notice
1	LED1+	-	Red LED for Power OK
2	LED1-	-	-
3	LED2+	-	Green LED for system status
4	LED2-	-	-

LVDS（J22）

Pin number	Pin name	Voltage level	Notice
1	VCC_LVDS	3.3V/5V optional by jumper	-
2	VCC_LVDS		-
3	VCC_LVDS		-
4	GND	GND	-
5	GND	GND	-
6	GND	GND	-
7	RXO0M	-	-
8	RXO0P	-	-
9	RXO1M	-	-
10	RXO1P	-	-
11	RXO2M	-	-
12	RXO2P	-	-
13	GND	GND	-

14	GND	GND	-
15	RXOCM	-	-
16	RXOCP	-	-
17	RXO3M	-	-
18	RXO3P	-	-
19	RXE0M	-	-
20	RXE0P	-	-
21	RXE1M	-	-
22	RXE1P	-	-
23	RXE2M	-	-
24	RXE2P	-	-
25	GND	GND	-
26	GND	GND	-
27	RXECM	-	-
28	RXECP	-	-
29	RXE3M	-	-
30	RXE3P	-	-
31	GND	-	-
32	GND	-	-
33	LVDS_BL_EN	3.3V	GPIO0_C5_d
34	LVDS_BL_PWM0	3.3V	GPIO0_C5_d
35	LVDS_IRQ	1.8V	-
36	I2C_SDA_LVDS	1.8V	-
37	LVDS_PWR_EN	-	GPIO0_C7_d
38	I2C_SCL_LVDS	1.8V	-
39	GND	-	-
40	IR_IN	-	GPIO0_C2_d

ADC/Audio（J23）

Pin number	Pin name	Voltage level	Notice
1	SARADC_VIN5	0～1.8V	ADC Input Channel 5
2	SARADC_VIN4	0～1.8V	ADC Input Channel 4
3	SARADC_VIN7	0～1.8V	ADC Input Channel 7
4	SARADC_VIN6	0～1.8V	ADC Input Channel 6
5	HP_SNS	Analog GND	-
6	GND	GND	-
7	HPR_OUT	Analog	HeadPhone Right Channel Output
8	HPL_OUT	Analog	HeadPhone Left Channel Output
9	SPKN_OUT	Analog	Speaker Output N (1.3W @8 Ohm Load)
10	SPKP_OUT	Analog	Speaker Output P（1.3W @8 Ohm Load)

Jumper for LVDS Voltage Selector（J24）

Pin number	Pin name	Voltage level	Notice
1	1,2 shorted	+5V	LVDS Panel Power(J22): +5V

2	3,4 shorted	+3.3V	LVDS Panel Power(J22): +3.3V

LCM_BackLight (J25)

Pin number	Pin name	Voltage level	Notice
1	GND	GND	-
2	GND	GND	-
3	BL_ADJ	3.3V	GPIO4_C2_D/PWM0
4	BL_EN	3.3V	GPIO4_C6_D/PWM1
5	VCC12V_BL	12V	-
6	VCC12V_BL	12V	-

M.2 M-key (J26)

Pin number	Pin name	Voltage level	Notice
1,3,9,15,21,27,33,39,45,51,57,63,65,67	GND	GND	-
2,4,12,14,16,18,62,64,66	VCC3V3	+3.3V	-
29	PCIE30_RX1N	-	-
31	PCIE30_RX1P	-	-
35	PCIE30_TX1N	-	-
37	PCIE30_TX1P	-	-
41	PCIE30_RX0N	-	-
43	PCIE30_RX0P	-	-
47	PCIE30_TX0N	-	-
49	PCIE30_TX0P	-	-
53	PCIE30_REFCLKN	-	-
55	PCIE30_REFCLKN	-	-
38	DEVSLP	3.3V	Pulled up by 10K Ohm Resistor to 3.3V
50	PCIE30X2_PERSTn_3V3_L	3.3V	-
52	PCIE30X2_CLKREQn_3V3_L	3.3V	-
54	PCIE30X2_WAKEn_3V3_L	3.3V	-
All the other pins	NC	-	Not Connected

Mini-PCIe-1 (J27)

Pin number	Pin name	Voltage level	Notice
2,24,39,41,52	VCC3V6_4G	+3.6V	Power Supply for 4G module
4,9,15,18,21,26,27,29,34,35,37,40,43,50	GND	GND	-
8	SIM_VCC	1.8/3.3V	Depending on the Module
10	4G_SIM_SIO	SIM_VCC	-
12	4G_SIM_CLK	SIM_VCC	-
14	4G_SIM_RST	SIM_VCC	-
22	4G_RESET	OC	GPIO2_D0_d Active High
36	4G_USB_DM	-	-
38	4G_USB_DP	-	-

42	4G_LED	Current Sink	-
17	4G_USB_SSRXN	-	-
19	4G_USB_SSRXP	-	-
31	HOST_WAKEUP_4G	OC	GPIO2_D1_d Active High
49	4G_USB_SSTXN	-	-
51	4G_USB_SSTXP	-	-
All the other pins	NC	-	Not Connected

MIPI_RX (J28)

Pin number	Pin name	Voltage level	Notice
1,4,7,10,13,16,19	GND	GND	-
2	MIPI_CSI_RX_D0P	-	-
3	MIPI_CSI_RX_D0N	-	-
5	MIPI_CSI_RX_D1P	-	-
6	MIPI_CSI_RX_D1N	-	-
8	MIPI_CSI_RX_CLK0N	-	-
9	MIPI_CSI_RX_CLK0P	-	-
11	MIPI_CSI_RX_D2P	-	-
12	MIPI_CSI_RX_D2N	-	-
14	MIPI_CSI_RX_D3P	-	-
15	MIPI_CSI_RX_D3N	-	-
17	MIPI_CSI_RX_CLK1P	-	-
18	MIPI_CSI_RX_CLK1N	-	-
20	CIF_CLKOUT	-	-
21	MIPI_CAM_X2_RST0	1.8V	GPIO3_D4_d
22	MIPI_CAM0_PDN_L	1.8V	GPIO3_D5_d
23	MIPI_CAM_X2_RST1	1.8V	GPIO3_D2_d
24	MIPI_CAM1_PDN_L	1.8V	GPIO3_D3_d
25	I2C_SCL_CAM	1.8V	GPIO4_B5_d
26	I2C_SDA_CAM	1.8V	GPIO4_B4_d
27	VCC1V8_DOVDD_DVP0	1.8V	Power Supply for Camera I/O
28	VDD1V2_DVDD_DVP0	1.2V	Power Supply for Camera Digital circuits
29	VCC2V8_DVP0	2.8V	Power Supply for Camera (500mA MAX)
30	VCC2V8_AVDD_DVP0	2.8V	Power Supply for Camera Analog circuits

Mini-PCIe-2 (J33)

Pin number	Pin name	Voltage level	Notice
2,24,39,41,52	VCC3V3_NPU	+3.3V	Power Supply for AI module
4,9,15,18,21,26,27,29,34,35,37, 40,43,50	GND	GND	-
17	HUB_USB3_SSRXN	-	-
19	HUB_USB3_SSRXP	-	-

22	NPU_RESETn	OC	GPIO3_A1_d Active High
30	-	-	-
32	-	-	-
36	HUB_USB3_DM	-	-
38	HUB_USB3_DP	-	-
45	NPU_RESETn	OC	GPIO3_A1_d Active High
49	HUB_USB3_SSTXN	-	-
51	HUB_USB3_SSTXP	-	-
All the other pins	NC	-	Not Connected

Mini-PCIe-3 (J34)

Pin number	Pin name	Voltage level	Notice
2,24,39,41,52	VCC3V3_NPU	+3.3V	Power Supply for AI module
4,9,15,18,21,26,27,29,34,35,37, 40,43,50	GND	GND	-
17	HUB_USB2_SSRXN	-	-
19	HUB_USB2_SSRXP	-	-
22	NPU_RESETn	OC	GPIO3_A1_d Active High
30	-	-	-
32	-	-	-
36	HUB_USB2_DM	-	-
38	HUB_USB2_DP	-	-
45	NPU_RESETn	OC	GPIO3_A1_d Active High
49	HUB_USB2_SSTXN	-	-
51	HUB_USB2_SSTXP	-	-
All the other pins	NC	-	Not Connected

7.应用场景

人工智能

机器视觉

工业控制

能源电力

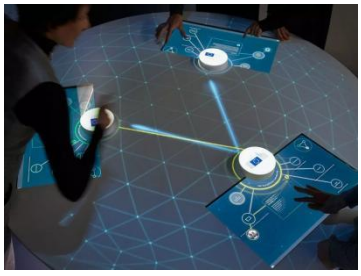
智慧平板

虚拟现实 VR

智慧物流

新零售

智慧商显



物体识别

车载终端

安防监控

8.订购型号

产品型号	状 态	CPU 型号	DDR 容量	eMMC 容量	工作温度
LZ12021600	ACTIVE	RK3568	2GB	16GB	-10℃ - 70℃
LZ12043200	ACTIVE	RK3568	4GB	32GB	-10℃ - 70℃
LZ12083200	ACTIVE	RK3568	8GB	32GB	-10℃ - 70℃
LZ12121600	ACTIVE	RK3568	2GB	16GB	-20℃ - 70℃
LZ12143200	ACTIVE	RK3568	4GB	32GB	-20℃ - 70℃
LZ12183200	ACTIVE	RK3568	8GB	32GB	-20℃ - 70℃

*非标定制请邮件咨询 sales@neardi.com

9.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。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-产品线

核心模块


LCB3588/J


LCB3568/J


LCB3566


LCB3399Pro


LCB3399

开发板/行业板


LKD3588/J


LKD3568/J


LKD3566


LKD3399Pro


LKD3399

嵌入式智能计算机


LPB3588


LPM3588


LPC3588


LPB3568


LPB3399Pro

BST 黑芝麻-产品线


SOM-A-A1000


SOM-π-A1000


SOM-B-A1000


SOM-A1000 开发者套件

车载终端-产品线


LPA3588


LPA3568


LPA3399Pro


LPS3399Pro

WIFI 模块-产品线


FD7352S


FD7352P


FD7352M


FD7155U


FD7256S