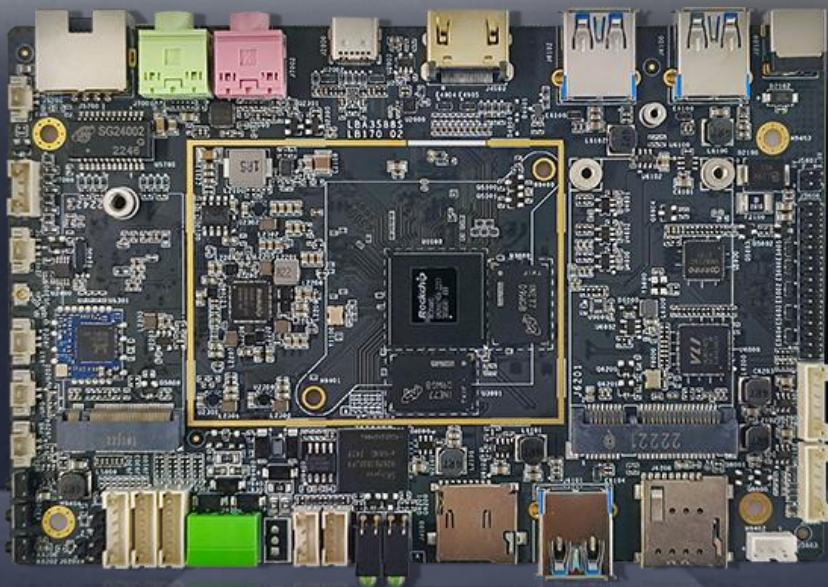


neardi

LBA3588S Development Board

Datasheet

V1.0



Shanghai Neardi Technology Co., Ltd.

www.neardi.com

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Version History

Version	Date	Description
V1.0	2023/7/31	Initial version

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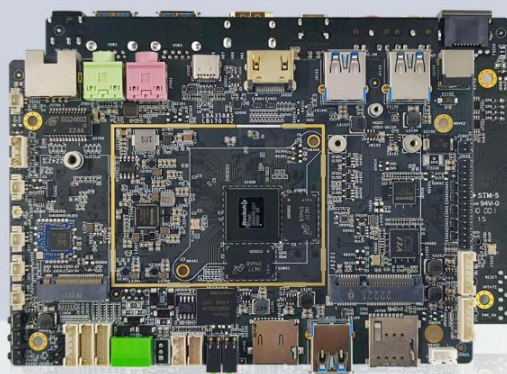
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1.Product Introduction

The LBA3588S is a multifunctional industry board meticulously designed based on the Rockchip RK3588S chip platform. The board is versatile, equipped with a rich set of interfaces, compact in size, and sleek and flat, making it suitable for products with limited structural space.

The LBA3588S features 3 Type-A USB 3.0 HOST ports and 1 Type-C USB 3.1 OTG, capable of connecting to multiple USB cameras externally. It also has 1 mini-PCIe interface that supports the expansion of 4G/5G modules or RK1808-based mini-PCIe NPU computing cards. Additionally, it is equipped with 1 M.2 M-Key for expanding storage space or NPU computing power cards. The LBA3588S also supports dual-band WIFI 6, BT 5.0, 1 Gigabit Ethernet, UART, RS232, I2C, RS485, CANBUS, and other commonly used communication module interfaces. It supports multiple MIPI CSI camera input interfaces as well as 1 HDMI 2.0 interface output and 1 dual-channel LVDS display output.

The LBA3588S supports Android, buildroot, Debian, and Ubuntu operating systems, offering advantages such as high performance, high reliability, and high extensibility, and provides users with open system source code. Users can develop and customize based on this product, and our company provides comprehensive technical support for developers and enterprise users, enabling them to efficiently complete research and development work and significantly shorten the product development and mass production cycle.



2. Function Overview



High-Performance Processor

CPU	8nm advanced process technology with an 8-core 64-bit architecture (4A76 + 4A55), offering high performance with low power consumption.
GPU	ARM Mali-G610 MC4 GPU, featuring a dedicated 2D graphics acceleration module.
NPU	6TOPS computing power for AI-related tasks.
VPU	Capable of 8K video encoding and decoding, as well as 8K display output.
DDR	LPDDR4 memory, with options for 4GB, 8GB, or 16GB capacities.
eMMC	eMMC 5.1 storage, with options for 32GB, 64GB, or 128GB capacities.



Rich Interfaces

Display Outputs:	1 HDMI 2.0 output supporting 8K resolution at 60Hz.
	1 Type-C port with DisplayPort capability.
LVDS Output:	Dual 8-bit LVDS output for display signaling.
Camera Inputs:	4 MIPI CSI interfaces supporting up to 6 MIPI camera inputs.
Networking:	1 Gigabit Ethernet port.
	Dual-band WIFI 6.
	Bluetooth 5.0 (BT-5.0).
Expansion Slots:	1 MIPI PCIe interface for the expansion of 4G/5G modules or additional computing cards.

Storage Interface: 1 M.2 M-Key interface supporting NVMe protocol in 2240

USB Interfaces: 3 Type-A USB 3.0 HOST ports for connecting various USB devices.



Scalable NPU Computing Power

The NPU computing power is expandable up to 35 TOPS (with the capability to externally connect one 26 TOPS computing card and one 3 TOPS computing card).

Demo programs are provided.



Operating System

Android

Linux (Buildroot / Debian / Ubuntu)



Open Source Materials

WIKI Documentation <http://www.neardi.com/cms/en/wiki.html>

Quick Start

Firmware Upgrade

Android Development

Linux Development

Kernel Drivers

DEMO

System Customization

Accessories

Frequently Asked Questions (FAQ)

Release Notes

Hardware Materials

Chip Datasheet

Product 2D/3D Drawings

Core Board Pin Definitions

Baseboard Reference Schematic

Baseboard Reference PCB

Key Bill of Materials (BOM)

Software Materials

Firmware Tools and Drivers

Android Source Code and Images

U-Boot and Kernel Source Code

Debian/Ubuntu/Buildroot System Files

3. Technical Specifications

Basic Parameters

SOC	RK3588S 8nm; 8-core 64-bit processor architecture (4A76 + 4A55).
GPU	ARM Mali-G610 MC4; Supports OpenGL ES 1.1/2.0/3.1/3.2; Vulkan 1.1/1.2; OpenCL 1.1/1.23/2.0; High-performance 2D image acceleration module.
NPU	6TOPS computing power / 3-core architecture; Supports int4/int8/int16/FP16/BF16/TF32.
VPU	Supports H.265/H.264/AV1/VP9/AVS2 video decoding, up to 8K60FPS; Supports H.264/H.265 video encoding, up to 8K30FPS.
DDR	LPDDR4, with options for 4GB/8GB/16GB.
eMMC	eMMC 5.1, with options for 32GB/64GB/128GB.
PMU	RK806
OS	Android / Ubuntu / Buildroot / Debian

Hardware Specifications

Power	DC12V - 3A (DC Jack 5.5*2.1mm / PH2.0 wafer connector)
USB	3*Type-A USB3.0 HOST 1* Type-C USB3.1 OTG
Display	1*Type-A HDMI 2.1 up to 8K@60fps or 4K@120fps Duel channel LVDS up to 1080P@60HZ
Audio	φ3.5mm earphone Jack with L/R audio out

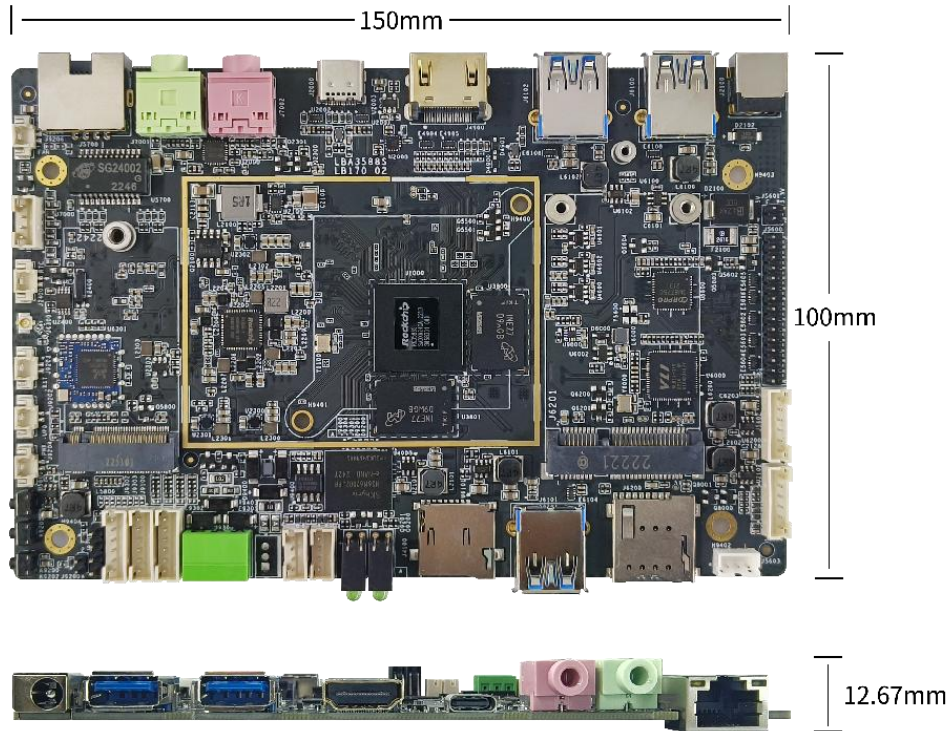
	φ3.5mm microphone Jack with Mic in
	2*2.7W/4Ω speaker out with L/R channel
Camera	3* MIPI CSI (4 Lane) or 2*MIPI CSI (2 Lane) + 2* MIPI CSI (4 Lane)
Mini-PCIe	mini PCIe for 2G/3G/4G/5G module RK1808 AI computing card
M.2	M.2 NGFF (M-KEY) PCIE V3.0 x4 with NVMe SSD supported
SD card	Compatible with SDIO 3.0 protocol, system boot up supported
SIM card	Micro sim slot for Mini-PCIe 4G LTE module
RJ-45	1*10/100/1000-Mbps data transfer rates
RTC	RTC power on and off supported
Serial port	2*Uart, 1*CANBUS, 2*RS232, RS485, 1*I2C
Keys	3* keys (power, reset, update)

Other Parameters

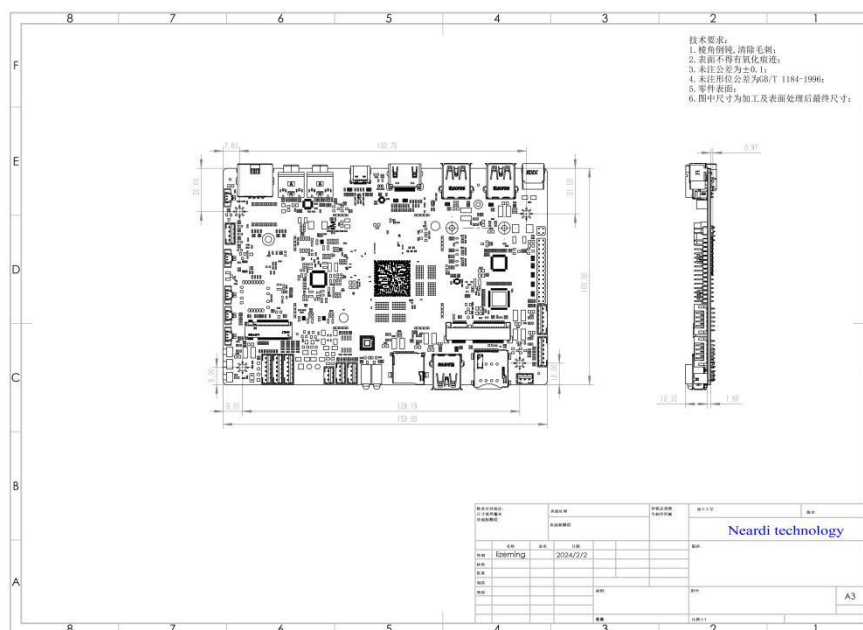
Dimensions	Length * Width * Height (mm) 150 * 100 * 12.67
Operating Temperature	-10 ~ 70°C
Weight	Approximately 112g (excluding peripherals)

4. Appearance and Dimensions

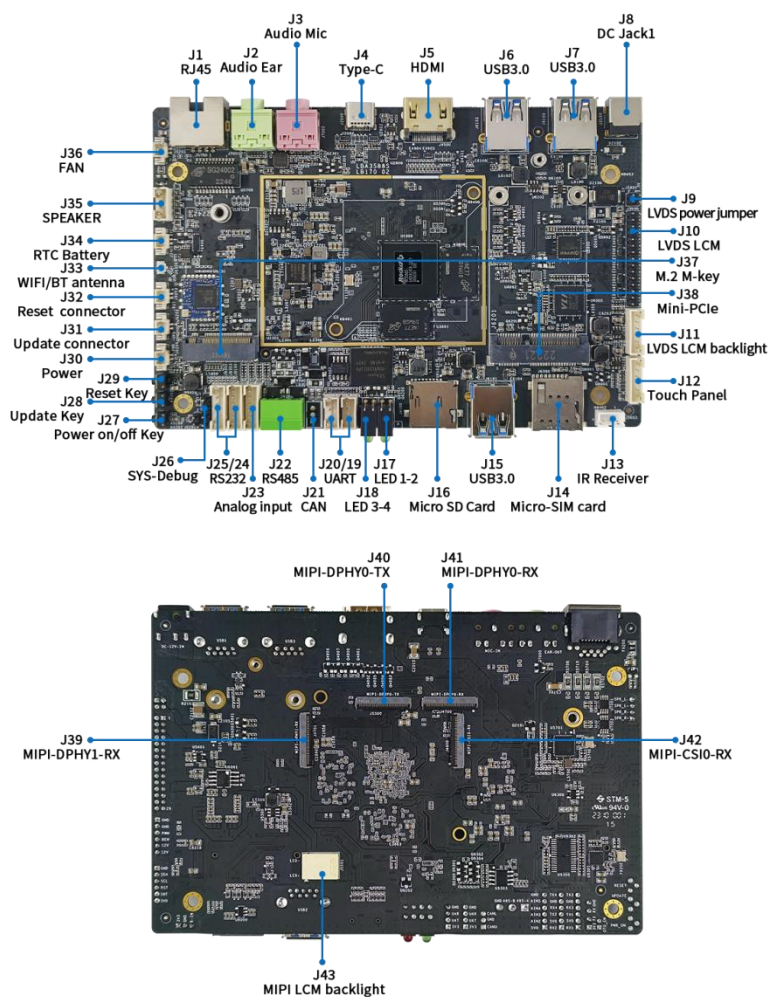
4.1 Appearance



4.2 Dimensions



5.Interface Definition



Part reference	Part Name	Part Specifications	Part Description
J1	RJ45	Gigabit Ethernet	10/100/1000-Mbps data transfer rates
J2	Audio Jack-Ear	φ3.5mm 3-L Jack	L/R audio out
J3	Audio Jack-Mic	φ3.5mm 3-L Jack	Micphone In
J4	Type-C	Type-C USB connector	Type-C with USB3.0 and Display port
J5	HDMI	Type-A HDMI connector	HDMI2.1 TX up to 7680x4320@60Hz
J6	USB3.0 -1	Type-A USB3.0 HOST	USB3.0 HOST
J7	USB3.0 -2	Type-A USB3.0 HOST	USB3.0 HOST
J8	DC Jack1	DC 5.5*2.1mm	Main power supply, DC12V – 3A
J9	LVDS power jumper	2.0mm Pitch 2X2Pin header	5V/3.3V power supply jumper for LCM
J10	LVDS LCM	2.0mm Pitch 2X15Pin header	dual 8bit lvds signals for LCM
J11	LVDS LCM backlight	PH2.0mm 6pin wafer	backlight power and control signals for LVDS

			LCM
J12	Touch Panel	PH2.0mm 6pin wafer	power and I2C signals for Touch Panel
J13	IR Receiver	PH2.0mm 3pin wafer	power and signals for IR Receiver
J14	Micro-SIM card	Push-Push Micro SIM Socket	Micro SIM Card
J15	USB3.0 -3	Type-A USB3.0 HOST	USB3.0 HOST
J16	Micro SD Card	Push-Push Micro SD socket	Micro SD Card
J17	LED 1-2	Green led *2	Power status indicate LED and diy LED
J18	LED 3-4	Red and Green LEDs	4G/5G net status indicate LED and diy LED
J19	UART -1	PH2.0mm 4pin wafer	1.8V UART-TTL signals
J20	UART -2	PH2.0mm 4pin wafer	1.8V UART-TTL signals
J21	CAN (optional)	PH2.0mm 3pin wafer	CAN Bus signals
J22	RS485	3.81mm pitch 3Pin Connector	RS485 Bus signals
J23	Analog input	PH2.0mm 6pin header	12bit, 1MS/s, up to 12V, analog input signals
J24	RS232 1-2	PH2.0mm 6pin wafer	Dual channel RS232 signals
J25	RS232 3-4	PH2.0mm 6pin wafer	Dual channel RS232 signals
J26	SYS-Debug	PH2.0mm 4pin wafer	1.8V UART-TTL signals for system debug
J27	Power on/off Key	push-button	Key for system Power on/off
J28	Update Key	push-button	Key for system recovery or other function
J29	Reset Key	push-button	Key for system reset
J30	Power on/off connector	PH2.0mm 2pin wafer	Socket for External Power Key
J31	Update connector	PH2.0mm 2pin wafer	Socket for External Update Key
J32	Reset connector	PH2.0mm 2pin wafer	Socket for External Reset Key
J33	WIFI/BT antenna	I-PXE,MHF $\Phi=2.0$	Antenna1 for WiFi/BT
J34	RTC Battery	PH2.0mm 2pin wafer	Battery for RTC 3.0V Input
J35	SPEAKER	PH2.0mm 4pin wafer	L/R channel audio signals Output for 2.7W@8 Ω Speaker
J36	FAN	PH2.0mm 2pin wafer	12V power output for cooling FAN
J37	M.2 M-key	Standard 2240 M.2 M-key connector	M.2 NGFF (M-KEY) with PCIE2.0x2
J38	Mini-PCle	Mini-PCle 52pin socket	USB3.0signals for 4G/5G LTE module
J39	MIPI-DPHY1-RX	0.5mm Pitch 30Pin FPC connector	mipi csi 4-lane signals for camera
J40	MIPI-DPHY0-TX	0.5mm Pitch 30Pin FPC connector	mipi dsi 4-lane signals for LCM
J41	MIPI-DPHY0-RX	0.5mm Pitch 30Pin FPC connector	mipi csi 4-lane signals for camera
J42	MIPI-CSIO-RX	0.5mm Pitch 30Pin FPC connector	mipi csi 4-lane signals for camera
J43	MIPI LCM backlight	3.5mm Pitch 2Pin wafer	backlight power for mipi LCM

6. Pin Definition

LVDS power jumper (J9)

Pin number	Pin name	Voltage level	Notice
1-2	short circuit between 1 and 2	3.3V	-
3-4	short circuit between 3 and 4	5V	-

LVDS LCM (J10)

Pin number	Pin name	Voltage level	Notice
1	VCC_LVDS	3.3V/5V optional by J9 jumper	-
2	VCC_LVDS		-
3	VCC_LVDS		-
4	GND	GND	-
5	GND	GND	-
6	GND	GND	-
7	RX00M	-	-
8	RX00P	-	-
9	RX01M	-	-
10	RX01P	-	-
11	RX02M	-	-
12	RX02P	-	-
13	GND	GND	-
14	GND	GND	-
15	RX0CM	-	-
16	RX0CP	-	-
17	RX03M	-	-
18	RX03P	-	-
19	RXE0M	-	-
20	RXE0P	-	-
21	RXE1M	-	-
22	RXE1P	-	-
23	RXE2M	-	-
24	RXE2P	-	-
25	GND	GND	-
26	GND	GND	-
27	RXE3M	-	-
28	RXE3P	-	-
29	RXE3M	-	-
30	RXE3P	-	-

LCM_BackLight (J11)

Pin number	Pin name	Voltage level	Notice
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1	GND	GND	-
2	GND	GND	-
3	BL_ADJ	3.3V	PWM5_M1
4	BL_EN	3.3V	GPIO4_B2
5	VCC12V_BL	12V	-
6	VCC12V_BL	12V	-

Touch Panel (J12)

Pin number	Pin name	Voltage level	Notice
1	GND	GND	-
2	I2C_SDA_TP	3.0V	I2C4_SDA_M3
3	I2C_SCL_TP	3.0V	I2C4_SCL_M3
4	TP_RESET	1.8V	GPIO1_B4
5	TP_INT	1.8V	GPIO1_B5
6	VCC3V0_TOUCH	3.0V	Power for Touch panel

IR Receiver (J13)

Pin number	Pin name	Voltage level	Notice
1	VCC3V3_PMU	+3.3V	3.3V Output for IR Module
2	GND	GND	-
3	IR_IN	1.8V	GPIO0_B4

LED 1-2 (J17)

Pin number	Pin name	Voltage level	Notice
LED1 (上)	-	-	Power status indicate LED
LED2 (下)	-	-	DIY led, controlled by GPIO1_D2

LED 3-4 (J18)

Pin number	Pin name	Voltage level	Notice
LED3 (上)	-	-	4G/5G net status indicate LED
LED4 (下)	-	-	DIY led, controlled by GPIO1_D3

UART -1 (J19)

Pin number	Pin name	Voltage level	Notice
1	3.3V	+3.3V	3.3V Output
2	UART TX	1.8V	GPIO1_B3/UART4_Tx_M2
3	UART RX	1.8V	GPIO1_B2/UART4_Rx_M2
4	GND	GND	-

UART -2 (J20)

Pin number	Pin name	Voltage level	Notice
1	3.3V	+3.3V	3.3V Output
2	UART TX	1.8V	GPIO1_A1/UART6_TX_M1
3	UART RX	1.8V	GPIO1_A0/UART6_RX_M1
4	GND	GND	-

CAN BUS (J21)

Pin number	Pin name	Voltage level	Notice
1	CAN_H	-	-
2	GND	GND	-

3	CAN_L	-	-
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RS485 (J22)

Pin number	Pin name	Voltage level	Notice
1	RS485-A	-	UART9_TX_M2/UART9_RX_M2
2	RS485-B	-	UART9_TX_M2/UART9_RX_M2
3	GND	-	-

Analog input (J23)

Pin number	Pin name	Voltage level	Notice
1	5.0V	-	-
2	SARADC_VIN2	0~12V	-
3	SARADC_VIN3	0~12V	-
4	SARADC_VIN4	0~12V	-
5	SARADC_VIN5	0~12V	-
6	GND	-	-

RS232 * 2 (J24)

Pin number	Pin name	Voltage level	Notice
1	RS232_RX2	-	-
2	5.0V	+5V	+5V Output
3	RS232_TX2	-	-
4	RS232_RX4	-	-
5	GND	GND	-
6	RS232_TX4	-	-

RS232 * 2 (J25)

Pin number	Pin name	Voltage level	Notice
1	RS232_RX1	-	-
2	5.0V	+5V	+5V Output
3	RS232_TX1	-	-
4	RS232_RX3	-	-
5	GND	GND	-
6	RS232_TX3	-	-

SYS-Debug (J26)

Pin number	Pin name	Voltage level	Notice
1	3.3V	3.3V	-
2	DBG UART RX	1.8V	-
3	DBG UART TX	1.8V	-
4	GND	GND	-

Power on/off connector (J30)

Pin number	Pin name	Voltage level	Notice
1	PWR_KEY	-	Socket for External Power Key
2	GND	GND	-

Update connector (J31)

Pin number	Pin name	Voltage level	Notice
1	SARADC_VIN0	1.8V	Socket for External Update Key

2	GND	GND	-
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Reset connector (J32)

Pin number	Pin name	Voltage level	Notice
1	RESETn	-	Socket for External Reset Key
2	D-	GND	-

RTC Battery (J34)

Pin number	Pin name	Voltage level	Notice
1	VRTC_IN	3.0V	-
2	GND	GND	-

SPEAKER (J35)

Pin number	Pin name	Voltage level	Notice
1	SPK_OUT_R+	-	2.7W ClassD audio Output
2	SPK_OUT_R-	-	-
3	SPK_OUT_L+	-	2.7W ClassD audio Output
4	SPK_OUT_L-	-	-

FAN (J36)

Pin number	Pin name	Voltage level	Notice
1	Fan Power out	+12V	+12V out for fan power
2	GND	GND	-

MIPI-DPHY1-RX (J39)

Pin number	Pin name	Voltage level	Notice
1	GND	-	-
2	MIPI_DPHY1_RX_D0P	-	-
3	MIPI_DPHY1_RX_D0N	-	-
4	GND	-	-
5	MIPI_DPHY1_RX_D1P	-	-
6	MIPI_DPHY1_RX_D1N	-	-
7	GND	-	-
8	MIPI_DPHY1_RX_CLKN	-	-
9	MIPI_DPHY1_RX_CLKP	-	-
10	GND	-	-
11	MIPI_DPHY1_RX_D2P	-	-
12	MIPI_DPHY1_RX_D2N	-	-
13	GND	-	-
14	MIPI_DPHY1_RX_D3P	-	-
15	MIPI_DPHY1_RX_D3N	-	-
16	GND	-	-
17	NC	-	-
18	NC	-	-
19	GND	-	-
20	MIPI_CAM_CLKOUT	1.8V	GPIO1_B6
21	MIPI_CAM_RST	1.8V	GPIO3_C4

22	MIPI_CAM_PDN_L	1.8V	GPIO3_C6
23	NC	-	-
24	NC	-	-
25	I2C3_SCL_M1	1.8V	GPIO3_B7
26	I2C3_SDA_M1	1.8V	GPIO3_C0
27	VCC_1V8_CAM1	1.8V	-
28	VCC_1V2_CAM1	1.2V	-
29	VCC_2V8_CAM1	2.8V	-
30	VCC2V8_AVDD_DVP	2.8V	-

MIPI-DPHY0-TX (J40)

Pin number	Pin name	Voltage level	Notice
1	VCC12V	-	-
2	VCC12V	-	-
3	VCC12V	-	-
4	VCC5V	-	-
5	VCC5V	-	-
6	VCC3.3V	-	-
7	VCC3.3V	-	-
8	VCC1.8V	-	-
9	I2C4_SCL_M3	3.3V	GPIO1_A3
10	I2C4_SDA_M3	3.3V	GPIO1_A2
11	MIPI_BL_PWM	1.8V	GPIO0_D0/PWM7_IR_M0
12	MIPI_BL_EN	1.8V	GPIO0_D3
13	LCD_PWREN	1.8V	GPIO1_B0
14	MIPILCD_RST	3.3V	GPIO4_A3
15	GND	-	-
16	MIPI_DPHY0_TX_D3N	-	-
17	MIPI_DPHY0_TX_D3P	-	-
18	GND	-	-
19	MIPI_DPHY0_TX_D2N	-	-
20	MIPI_DPHY0_TX_D2P	-	-
21	GND	-	-
22	MIPI_DPHY0_TX_CLKN	-	-
23	MIPI_DPHY0_TX_CLKP	-	-
24	GND	-	-
25	MIPI_DPHY0_TX_D1N	-	-
26	MIPI_DPHY0_TX_D1P	-	-
27	GND	-	-
28	MIPI_DPHY0_TX_D0N	-	-
29	MIPI_DPHY0_TX_D0P	-	-
30	GND	-	-

MIPI-DPHY0-RX (J41)

Pin number	Pin name	Voltage level	Notice
1	GND	-	-
2	MIPI_DPHY1_RX_D0P	-	-
3	MIPI_DPHY1_RX_D0N	-	-
4	GND	-	-
5	MIPI_DPHY1_RX_D1P	-	-
6	MIPI_DPHY1_RX_D1N	-	-
7	GND	-	-
8	MIPI_DPHY1_RX_CLKN	-	-
9	MIPI_DPHY1_RX_CLKP	-	-
10	GND	-	-
11	MIPI_DPHY1_RX_D2P	-	-
12	MIPI_DPHY1_RX_D2N	-	-
13	GND	-	-
14	MIPI_DPHY1_RX_D3P	-	-
15	MIPI_DPHY1_RX_D3N	-	-
16	GND	-	-
17	NC	-	-
18	NC	-	-
19	GND	-	-
20	MIPI_CAM_CLKOUT	1.8V	GPIO1_B6
21	MIPI_CAM_RST	1.8V	GPIO3_c4
22	MIPI_CAM_PDN_L	1.8V	GPIO3_C6
23	NC	-	-
24	NC	-	-
25	I2C8_SCL_M2	1.8V	GPIO1_D6
26	I2C8_SDA_M2	1.8V	GPIO1_D7
27	VCC_1V8_CAM1	1.8V	-
28	VCC_1V2_CAM1	1.2V	-
29	VCC_2V8_CAM1	2.8V	-
30	VCC2V8_AVDD_DVP	2.8V	-

MIPI-CSIO-RX (J42)

Pin number	Pin name	Voltage level	Notice
1	GND	-	-
2	MIPI_CSIO_RX_D0P	-	-
3	MIPI_CSIO_RX_D0N	-	-
4	GND	-	-
5	MIPI_CSIO_RX_D1P	-	-
6	MIPI_CSIO_RX_D1N	-	-
7	GND	-	-

8	MIPI_CSIO_RX_CLK0N	-	-
9	MIPI_CSIO_RX_CLK0P	-	-
10	GND	-	-
11	MIPI_CSIO_RX_D2P	-	-
12	MIPI_CSIO_RX_D2N	-	-
13	GND	-	-
14	MIPI_CSIO_RX_D3P	-	-
15	MIPI_CSIO_RX_D3N	-	-
16	GND	-	-
17	MIPI_CSIO_RX_CLK1P	-	-
18	MIPI_CSIO_RX_CLK1N	-	-
19	GND	-	-
20	MIPI_CAM_CLKOUT	1.8V	GPIO1_B6
21	MIPI_CAM_RST	1.8V	GPIO3_C4
22	MIPI_CAM_PDN_L	1.8V	GPIO3_C6
23	MIPI_CAM_X2_RST	1.8V	GPIO1_A4
24	MIPI_CAM_X2_PDN_L	1.8V	GPIO1_A7
25	I2C8_SCL_M2	1.8V	GPIO1_D6
26	I2C8_SDA_M2	1.8V	GPIO1_D7
27	VCC_1V8_CAM1	1.8V	-
28	VCC_1V2_CAM1	1.2V	-
29	VCC_2V8_CAM1	2.8V	-
30	VCC2V8_AVDD_DVP	2.8V	-

MIPI LCM backlight (J43)

Pin number	Pin name	Voltage level	Notice
1	LED+	-	-
2	LED-	-	-

7.Application Scenarios



AI



Machine Vision



Industrial Control



Energy and Power



Smart Tablet



VR



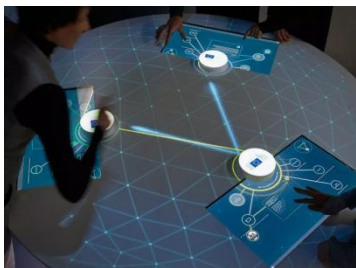
Smart Logistics



New



Smart Commercial



Object Recognition



Vehicle terminal



Security Surveillance

8. Ordering Model

Product Model	Status	CPU	DDR	eMMC	Operating Temperature
LB17043200	ACTIVE	RK3588S	4GB	32GB	-10°C - 70°C
LB17086400	ACTIVE	RK3588S	8GB	64GB	-10°C - 70°C
LB1709A800	ACTIVE	RK3588S	16GB	128GB	-10°C - 70°C

*For customized non-standard orders, please contact us via email at sales@neardi.com.

9.About NearDi















Shanghai NearDi Technology Co., Ltd., established in 2014, is a national-level high-tech enterprise, a strategic partner of Rockchip, and an authorized agent for Black Sesame Technologies. We focus on the research and development and production of enterprise-level open-source hardware platforms, offering customers core modules, industry-specific boards, development boards, touch panels, and industrial control hosts. Adhering to the core philosophy of technological innovation and professional service, leveraging NearDi Technology's technical strengths and industry experience, we assist our partners in achieving rapid mass production of their products.

Company Advantages

Software Design / Custom OS / Product ODM / Bulk Delivery

Products

Rockchip

System On Module				
 LCB3588/J	 LCB3568/J	 LCB3566	 LCB3399Pro	 LCB3399
Development Board				
 LKD3588/J	 LKD3568/J	 LKD3566	 LKD3399Pro	 LKD3399
Embedded Computer				
 LPB3588	 LPM3588	 LPC3588	 LPB3568	 LPB3399Pro






Black Sesame Technologies

 SOM-A-A1000	 SOM-π-A1000	 SOM-B-A1000	 SOM-A1000 开发者套件
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Vehicle Terminal

 LPA3588	 LPA3568	 LPA3399Pro	 LPS3399Pro
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WIFI Module

 FD7352S	 FD7352P	 FD7352M	 FD7155U	 FD7256S
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