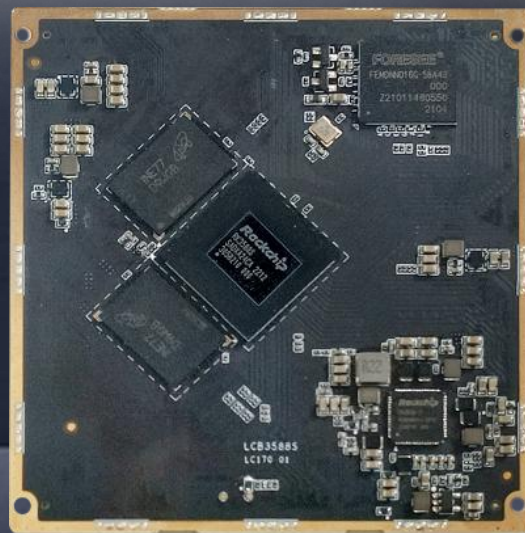




LCB3588S System On Module Datasheet V1.0



Shanghai Neardi Technology Co., Ltd.

www.neardi.com

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Shanghai Neardi Technology Co., Ltd.

Phone: +86 021-20952021

Website: www.neardi.com

Email: sales@neardi.com

Version History

Version	Date	Description
V1.0	2022/8/23	Initial version

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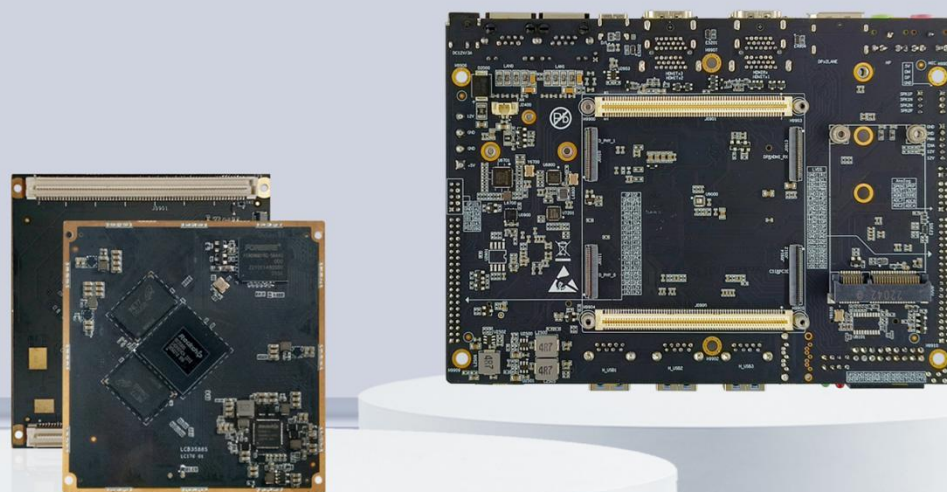
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1.Product Introduction

The LCB3588S core module is an exquisitely designed all-in-one core module based on the Rockchip RK3588S chip platform, with dimensions of only 75mm by 70mm. The connection between the core module and the baseboard uses a combination of two 140Pin board-to-board connectors with a 0.8mm pitch and four 30Pin FPC connectors with a 0.5mm pitch, secured by four M2 screws; it truly brings out all the external pin signals of the RK3588S, while also meeting the needs for high reliability, low cost, and high flexibility. In practical applications, the FPC connectors can be added based on the corresponding functional requirements; compared to card-edge connectors or connectors with smaller pitches (such as 0.5mm), it offers higher reliability and yield assurance in harsh industrial environments or long-term vibration vehicle environments.

The LCB3588S includes the CPU, DDR, eMMC, and PMU components. The CPU is the RK3588S; DDR uses mainstream market models LPDDR4/LPDDR4X, with lower power consumption and faster frequency, available in configurations of 2GB/4GB/8GB/16GB; eMMC adopts the high-speed eMMC 5.1 standard, with various capacity configurations such as 32GB/64GB/128GB; the PMU consists of RK806 and multiple DC-DC converters and LDOs, with CPU core voltages supporting DVFS (Dynamic Voltage and Frequency Scaling).

The LCB3588S adopts a modular design concept, designing the core part, which has the same requirements and strict standards, as a full-function module. It brings out all the functional pins of the CPU and has undergone comprehensive testing and mass verification. Users can save project development time, reduce corporate costs, and improve company efficiency by developing products based on this module.



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.



Scalable NPU Computing Power

NPU computational power can be expanded up to 38 TOPS; capable of externally connecting 1 computational card with 26 TOPS of computational power and 2 computational cards with 3 TOPS each.

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

MIPI interface :	
Video Input interface	2 * MIPI(4 lanes) + 4 * MIPI(2 lanes), totally support 6 cameras input;
	3 * MIPI(4 lanes) + 2 * MIPI(2 lanes), totally support 5 cameras input;
	4 * MIPI(4 lanes) , totally support 4 cameras input;
HDMI RX interface:	
HDMI 2.0 2160p@60 Hz, Support HDCP2.3 and HDCP1.4;	

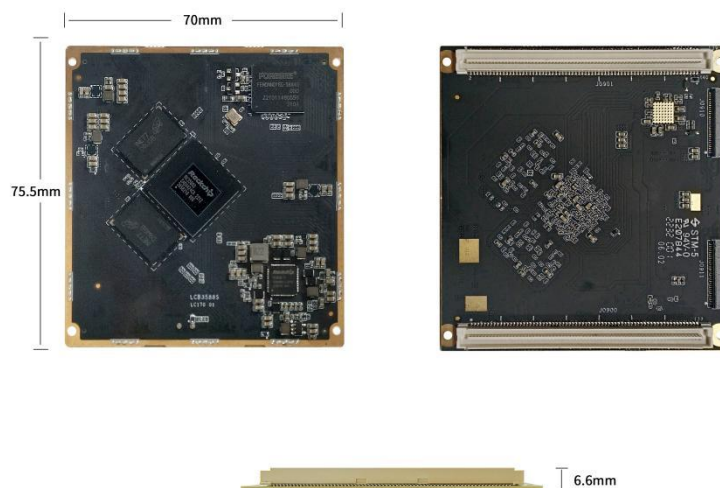
	1 * HDMI2.1 up to 8K@60fps;
Video Output	1 * HDMI2.0 up to 4K@60fps;
interface	2 * MIPI-DSI up to 4K@60fps;
	1 * BT.1120 up to 1080@60fps;
Image Signal	8064*6048@15 dual ISP;
	6528*4898@30 dual ISP;
Processor	4672*3504@30 single ISP;
Video Output	Video Port0 up to 7680*4320@60Hz;
Processor	Video Port1 up to 4096*4320@60Hz;

Other Parameters

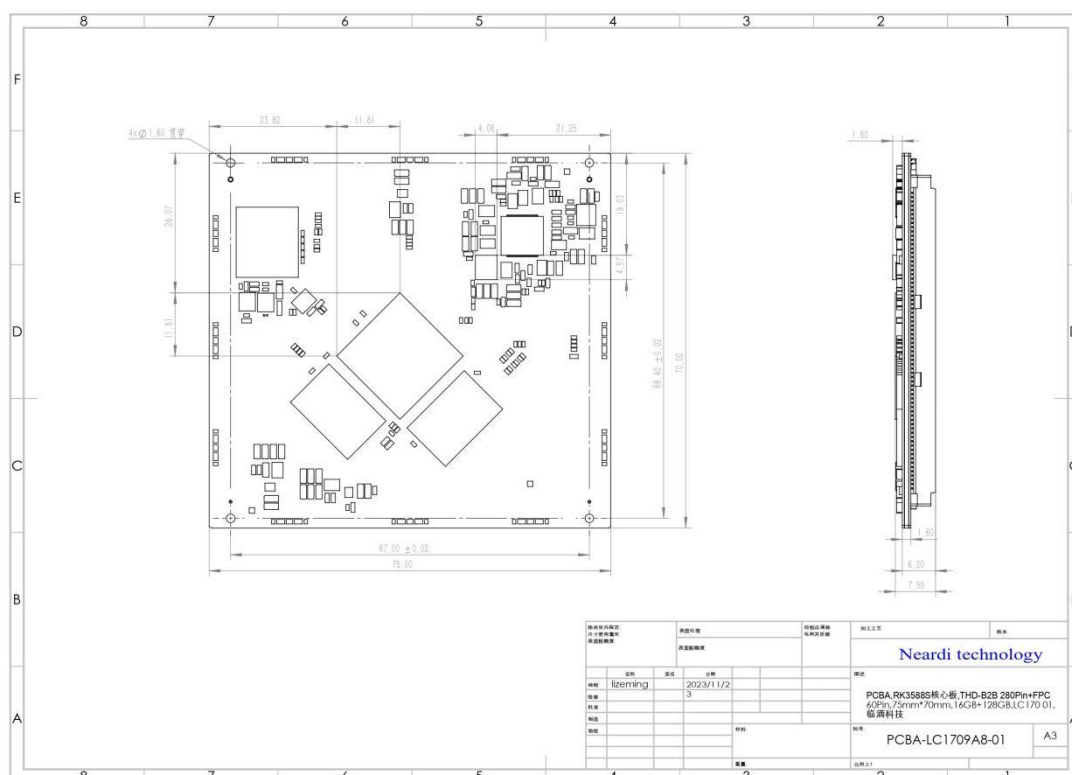
Operating	Enterprise Grade: -20°C to 70°C
temperature	Industrial Grade: -40°C to 85°C
PCB interface	B2B(280 Pin 0.8mm Pitch) + FPC(2 * 30 Pin 0.5mm Pitch)
PCB layers	10 layers
PCB size	L* W *H(mm): 75 *70 * 7.5 (PCB thickness 1.6mm)

4. Appearance and Dimensions

4.1 Appearance



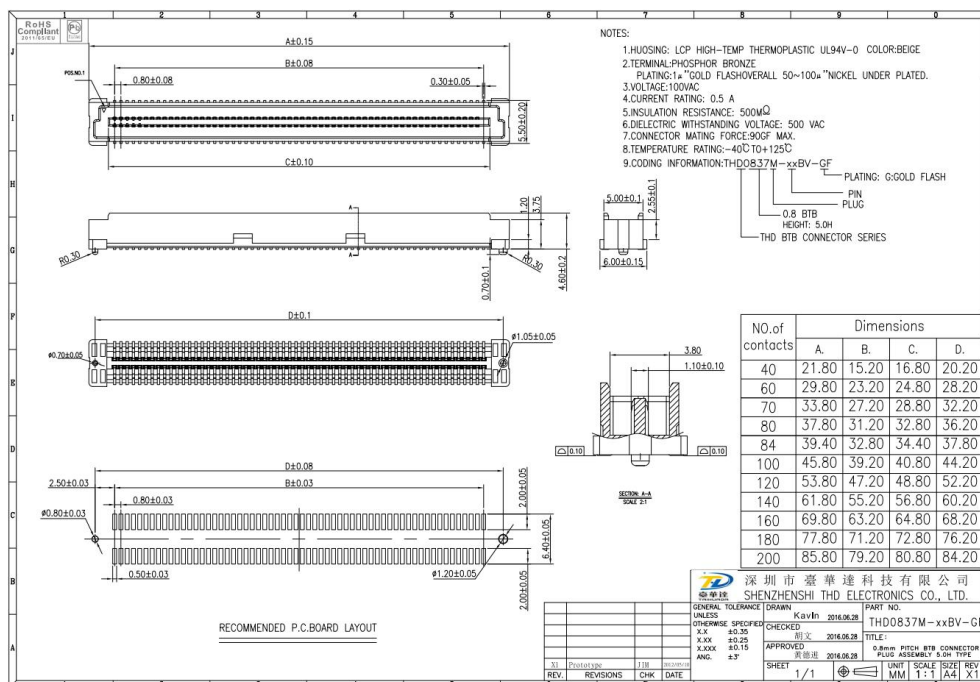
4.2 Dimensions



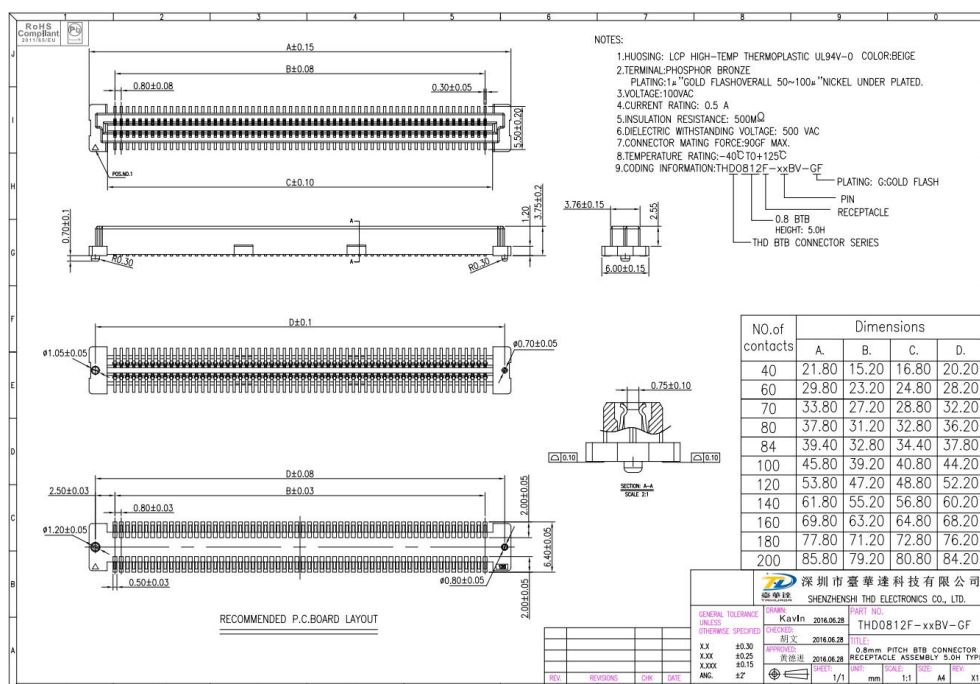
4.3 structure

The LCB3588S utilizes two 140Pin board-to-board connectors with a 0.8mm pitch and four 30Pin FPC connectors

with a 0.5mm pitch. The standard combined height of the board-to-board connectors is 5mm. The model number of the core board's board-to-board connectors is THD0837M-140BV-GF, and the dimensions are shown in the figure below:

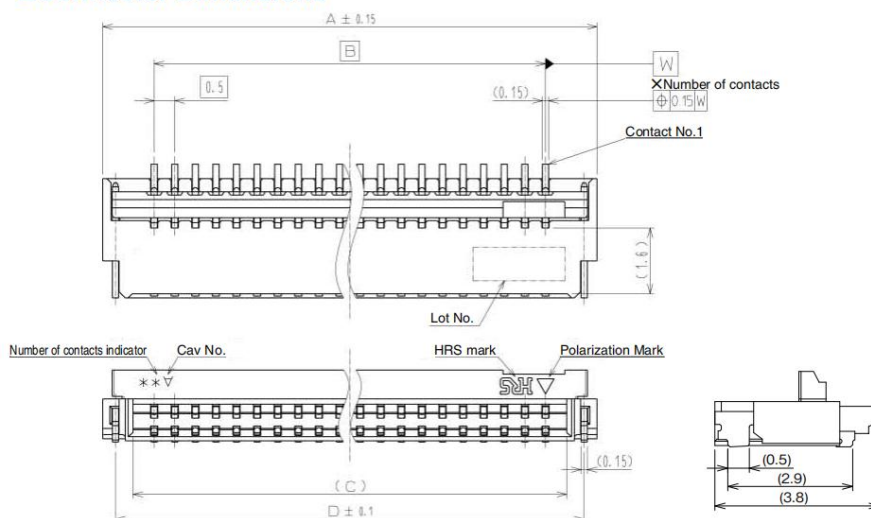


The corresponding board-to-board connector on the baseboard is model THD0812F-140BV-GF, with the relevant specifications shown in the figure below:



The four FPC connectors are all of the HRS model number: FH34SRJ-30S-0.5SH, with the relevant specifications shown in the figure below:

■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.

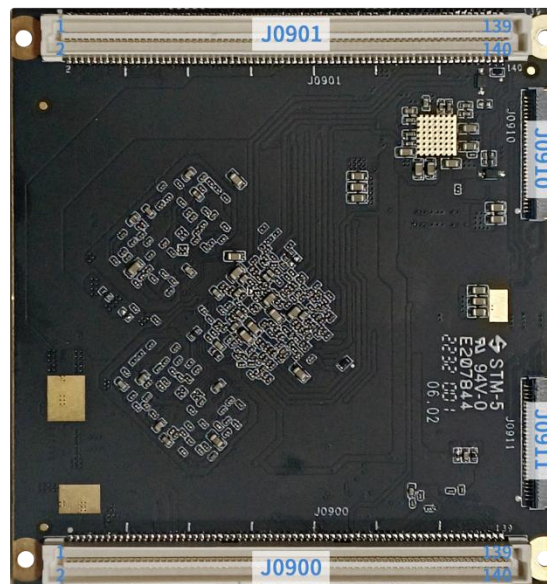
Unit : mm

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.Interface Definition



J0901

Pin Number	Pin Name
1	GND13
2	GPIO4_D5-SDMMC0_CLK
3	HDMI0_TX_SBDN/eDP0_TX_AUXN
4	GPIO4_D0-SDMMC0_D0
5	HDMI0_TX_SBDP/eDP0_TX_AUXP
6	GPIO4_D1-SDMMC0_D1
7	GND14
8	GPIO4_D2-SDMMC0_D2
9	HDMI0_TX3N_PORT/eDP0_TX_D3N
10	GPIO4_D3-SDMMC0_D3

11	HDMI0_TX3P_PORT/eDP0_TX_D3P
12	GPIO4_D4-SDMMC0_CMD
13	GND15
14	GPIO0_D5-CAN2_TX_M1
15	HDMI0_TX0N_PORT/eDP0_TX_D0N
16	GPIO0_A4-SDMMC0_DET_L
17	HDMI0_TX0P_PORT/eDP0_TX_D0P
18	GND1
19	GND16
20	GPIO4_B2-4G_PWR-IO6
21	HDMI0_TX1N_PORT/eDP0_TX_D1N
22	GPIO3_D3-4G-RST_IO5
23	HDMI0_TX1P_PORT/eDP0_TX_D1P
24	GPIO3_A6_d_IO5
25	GND17
26	GPIO4_B0-I2C6_SDA_M3_IO6
27	HDMI0_TX2N_PORT/eDP0_TX_D2N
28	GPIO4_B5-IO6
29	HDMI0_TX2P_PORT/eDP0_TX_D2P
30	GPIO3_C1_9523-RST_IO5
31	GND18
32	GPIO4_B1-I2C6_SCL_M3_IO6

33	NC4
34	GND2
35	NC5
36	USB2_DP_HOST1
37	NC6
38	USB2_DM_HOST1
39	NC7
40	GND3
41	NC8
42	NC1
43	NC9
44	NC2
45	NC10
46	GND4
47	NC11
48	PCIE20_2_RXP/SATA30_2_RXP/USB3_HOST_SSRXP
49	NC12
50	PCIE20_2_RXN/SATA30_2_RXN/USB3_HOST_SSRXN
51	NC13
52	GND5
53	GND19
54	USB3_HOST_DM

55	TYPEC0_SBU1
56	USB3_HOST_DP
57	TYPEC0_SBU2
58	GND6
59	TYPEC0_OTG_VBUSDET
60	TYPEC0_OTG_DP
61	USB2_OTG0_ID
62	TYPEC0_OTG_DM
63	SARADC_VIN3
64	GND7
65	NC14
66	PCIE20_2_TXP/SATA30_2_TXP/USB3_HOST_SSTXP
67	SARADC_VIN0_BOOT_IO
68	PCIE20_2_TXN/SATA30_2_TXN/USB3_HOST_SSTXN
69	GND20
70	GND8
71	TYPEC0_SSRX1N
72	SARADC_VIN5
73	TYPEC0_SSRX1P
74	SARADC_VIN1_KEY/RECOVERY
75	GND21
76	SARADC_VIN4

77	TYPEC0_SSTX1P
78	SARADC_VIN2
79	TYPEC0_SSTX1N
80	GND9
81	GND22
82	GPIO3_C5-SDMMC_PWR-IO5
83	TYPEC0_SSRX2N
84	TYPEC0_SBU1_DC
85	TYPEC0_SSRX2P
86	TYPEC0_SBU2_DC
87	GND23
88	UART9_RX_M2_IO5
89	TYPEC0_SSTX2P
90	UART9_TX_M2_IO5
91	TYPEC0_SSTX2N
92	GPIO4_A4-AW9523_INT-IO6
93	GND24
94	GPIO3_C6-TYPEC_PWR-IO5
95	GPIO3_C4-SPKCTRL-IO5
96	GPIO3_C0-IO5
97	NC15
98	GPIO3_B7-NPU_PWR_EN-IO5

99	GPIO1_B0-LT8912-PWR
100	NC3
101	GPIO3_D2d_IO5
102	PMIC_EXT_EN_OUT
103	GND25
104	GPIO4_B4-HDMI_TXON_H-IO6
105	PWRON_L
106	GND10
107	PMU_VDC_IN
108	HDMITX0_SDA_M0
109	GPIO4_A6-NPU_REST-IO6
110	VCC_IO5_1833_IN
111	VCC_IO6_1833_IN
112	HDMITX0_SCL_M0
113	GPIO4_A3-LT8912-RST-IO6
114	GPIO4_B3-HOST_WAKE_BT-IO6
115	GPIO4_C1-BT_REGON-IO6
116	GPIO1_C1_SEN_INT_L
117	GPIO1_B5-LCD-BKLEN_1V8
118	GPIO0_C6_LVDS_BL_PWM5
119	GPIO1_A4_DPHY1CAM_RST
120	GPIO4_B6-GMAC1_RSTn

121	GPIO4_A5-WIFIREG_ON-IO6
122	GPIO1_B2_UART4_Rx_M2_IO4
123	GPIO1_B3_UART4_Tx_M2_IO4
124	GPIO4_A7-TP-INT-L_IO6
125	GND26
126	GND11
127	GND27
128	GND12
129	VCC_SYSIN_4
130	VCC_SYSIN_1
131	VCC_SYSIN_5
132	VCC_SYSIN_2
133	VCC_SYSIN_6
134	VCC_SYSIN_3
135	GND28
136	VCC_1V8_S3_Out_2A5
137	VCCA_3V3_S0_Out_0A5
138	VCC_3V3_S3_Out_2A5
139	VCC_1V8_S0_Out_0A5
140	VCCA_PMU_IN

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Pin Number	Pin Name
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1	PCIE20x1_2_CLKREQn_M0
2	NC1
3	NC16
4	GPIO0_C7-DPHY1_CAMA_PDN
5	PCIE20x1_2_WAKEn_M0
6	PCIE20x1_2_PERSTn_M0
7	GPIO1_D4-I2S0_SDI
8	GPIO0_A0-PDHY0CAM_PWR_H
9	GPIO1_C7-I2S0_SDO
10	GPIO1_B4-DPHY1CAM_PWR_H
11	GPIO1_D2-WORKING_LED_H
12	GND1
13	GPIO1_C5-I2S0_LRCK_TX
14	GPIO1_B6-DPHY0CAM_CLKOUT
15	GPIO1_C0-HP_DET_L
16	GPIO1_C6-GM8775_PWREN_H
17	GPIO0_C5-USB_HOST_PWREN_H
18	GPIO1_B7-DPHY1CAM_CLKOUT
19	GND20
20	GPIO1_B1-GM8775_RST
21	GPIO1_C3-I2S0_SCLK_TX
22	GND2

23	GPIO1_D0-I2C7_SCL_M0_IO1
24	GPIO1_D7-I2C8_SDA_M2_CAM
25	GPIO1_D1-I2C7_SDA_M0_IO1
26	GPIO1_A7-DPHY0_CAMB_PDN
27	GPIO1_C2-I2S0_MCLK
28	GPIO1_D6-I2C8_SCL_M2_CAM
29	GPIO1_A5-HDMITX0_HPDIIN_M0
30	GPIO0_D0_DPHY0CAMA_PDN
31	NC17
32	GPIO0_D3_DPHY1CAMB_PDN
33	GPIO1_A1-UART6_TX_M1
34	GPIO1_A6-DPHY0CAM_RST
35	GPIO1_A0-UART6_RX_M1
36	GPIO0_B2-RTC_32K_IN
37	GND21
38	GPIO0_B0-RTC_INT_L
39	NC18
40	UART2_TX_M0/JTAG_TCK_M2
41	NC19
42	UART2_RX_M0/JTAG_TMS_M2
43	GND22
44	GND3

45	NC20
46	NC2
47	NC21
48	NC3
49	GND23
50	GND4
51	NC22
52	NC4
53	NC23
54	NC5
55	GND24
56	GND5
57	RESET_L
58	NC6
59	GPIO3_B2-BT_WAKE_HOST-IO6
60	NC7
61	GPIO0_D4-CAN2RX_M1-IR_M0
62	GND6
63	GPIO1_A2-I2C4_SDA_M3_TP
64	NC8
65	GPIO1_A3-I2C4_SCL_M3_TP
66	NC9

67	NC24
68	GND7
69	NC25
70	NC10
71	GPIO0_C4-CC_INT0_L
72	NC11
73	GPIO4_A2-TP_RST-IO6
74	GND8
75	GPIO1_D3-SATA2_ACT_LED
76	PCIE20_0_REFCLKN
77	NC26
78	PCIE20_0_REFCLKP
79	GPIO1_D5-1V8
80	GND9
81	GPIO1_C4-1V8
82	PCIE20_0_RXN/SATA30_0_RXN
83	NC27
84	PCIE20_0_RXP/SATA30_0_RXP
85	NC28
86	GND10
87	NC29
88	PCIE20_0_TXN/SATA30_0_TXN

89	NC30
90	PCIE20_0_TXP/SATA30_0_TXP
91	NC31
92	GND11
93	GND25
94	NC12
95	NC32
96	NC13
97	NC33
98	GND12
99	NC34
100	NC14
101	NC35
102	NC15
103	NC36
104	GND13
105	NC37
106	MIPI_CSI0_RX_D0N
107	GND26
108	MIPI_CSI0_RX_D0P
109	GPIO3_C2-GMAC1_MDC
110	GND14

111	GPIO3_C3-GMAC1_MDIO
112	MIPI_CSI0_RX_D1N
113	GPIO3_A1-GMAC1_TXD3
114	MIPI_CSI0_RX_D1P
115	GPIO3_A0-GMAC1_TXD2
116	GND15
117	GPIO3_B3-GMAC1_TXD0
118	MIPI_CSI0_RX_CLK0N
119	GPIO3_B4-GMAC1_TXD1
120	MIPI_CSI0_RX_CLK0P
121	GPIO3_B5-GMAC1_TXEN
122	GND16
123	GPIO3_B6-GMAC1_MCLKINOUT
124	MIPI_CSI0_RX_D2N
125	GPIO3_A4-GMAC1_TXCLK
126	MIPI_CSI0_RX_D2P
127	GPIO3_A5-GMAC1_RXCLK
128	GND17
129	GPIO3_A7-GMAC1_RXD0
130	MIPI_CSI0_RX_D3N
131	GPIO3_B1-GMAC1_RXDV_CRS
132	MIPI_CSI0_RX_D3P

133	GPIO3_B0-GMAC1_RXD1
134	GND18
135	GPIO3_A2-GMAC1_RXD2
136	MIPI_CSI0_RX_CLK1N
137	GPIO3_A3-GMAC1_RXD3
138	MIPI_CSI0_RX_CLK1P
139	GND27
140	GND19

J0910

Pin Number	Pin Name
1	MIPI_DPHY1_TX_D3P
2	MIPI_DPHY1_TX_D3N
3	GND
4	MIPI_DPHY1_TX_D2P
5	MIPI_DPHY1_TX_D2N
6	GND
7	MIPI_DPHY1_TX_CLKP
8	MIPI_DPHY1_TX_CLKN
9	GND
10	MIPI_DPHY1_TX_D1P
11	MIPI_DPHY1_TX_D1N
12	GND

13	MIPI_DPHY1_TX_D0P
14	MIPI_DPHY1_TX_D0N
15	GND
16	MIPI_DPHY1_RX_D3N
17	MIPI_DPHY1_RX_D3P
18	GND
19	MIPI_DPHY1_RX_D2P
20	MIPI_DPHY1_RX_D2N
21	GND
22	MIPI_DPHY1_RX_CLKP
23	MIPI_DPHY1_RX_CLKN
24	GND
25	MIPI_DPHY1_RX_D1P
26	MIPI_DPHY1_RX_D1N
27	GND
28	MIPI_DPHY1_RX_D0P
29	MIPI_DPHY1_RX_D0N
30	GND

J0911

Pin Number	Pin Name
1	MIPI_DPHY0_RX_D3P
2	MIPI_DPHY0_RX_D3N

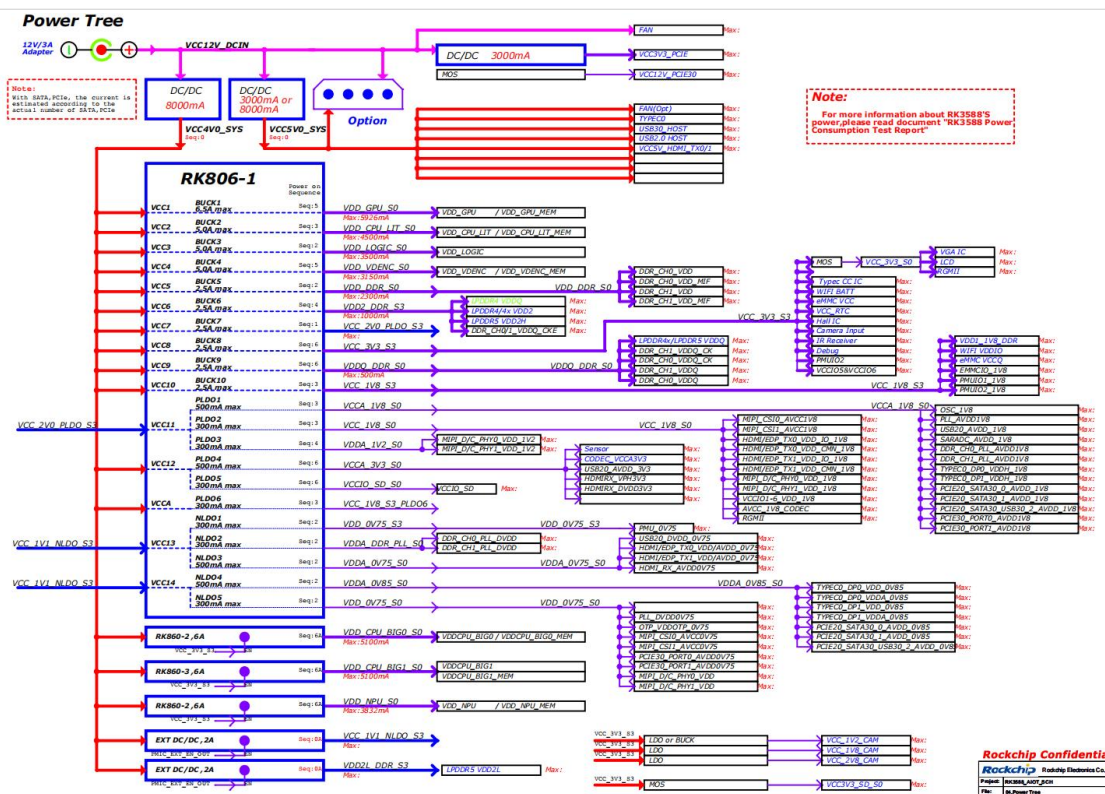
3	GND
4	MIPI_DPHY0_RX_D2P
5	MIPI_DPHY0_RX_D2N
6	GND
7	MIPI_DPHY0_RX_CLKP
8	MIPI_DPHY0_RX_CLKN
9	GND
10	MIPI_DPHY0_RX_D1N
11	MIPI_DPHY0_RX_D1P
12	GND
13	MIPI_DPHY0_RX_D0N
14	MIPI_DPHY0_RX_D0P
15	GND
16	MIPI_DPHY0_TX_D3N
17	MIPI_DPHY0_TX_D3P
18	GND
19	MIPI_DPHY0_TX_D2N
20	MIPI_DPHY0_TX_D2P
21	GND
22	MIPI_DPHY0_TX_CLKN
23	MIPI_DPHY0_TX_CLKP
24	GND

25	MIPI_DPHY0_TX_D1P
26	MIPI_DPHY0_TX_D1N
27	GND
28	MIPI_DPHY0_TX_D0P
29	MIPI_DPHY0_TX_D0N
30	GND

Power Supply Voltage Parameters

Symbol	Parameter	Current typ	Voltage (V)		
			Min	Typ	Max
VCC4V0_SYS_IN*	Main power input for LCB3588S	> 5A	3.3	4	5
VCCA_PMU_IN_5V0	Backup voltage input for RTC and power on detect	0.01A	-	VCC4V0_SYS_IN*	-
VCC_3V3_S3_OUT_2A5	3.3V output for carrier board use	1.5A	3.2	3.3	3.4
VCC_3V3_S0_OUT_0A5	3.3V output for carrier board use	0.3A	3.2	3.3	3.4
VCC_1V8_S3_OUT_2A5	1.8V output for carrier board use	1.0A	1.7	1.8	1.9
VCC_1V8_S0_OUT_0A3	1.8V output for carrier board use	0.1A	1.7	1.8	1.9
VCC_IO5_1833_IN	Power input for VCCIO5 part of CPU	0.1A	1.7	1.8	1.9
			3.2	3.3	3.4
VCC_IO6_1833_IN	Power input for VCCIO6 part of CPU	0.1A	1.7	1.8	1.9
			3.2	3.3	3.4
PMIC_EXT_EN_OUT_PMU	Output enable for external BUCK	-	0	3.3	3.4
PMU_VDC_IN_1/2ATTN (threshold)	System Power on signal input	2.8	3	3.3	12

Power Supply Topology Diagram



6.Application Scenarios



AI



Machine Vision



Industrial Control



Energy and Power



Smart Tablet



VR



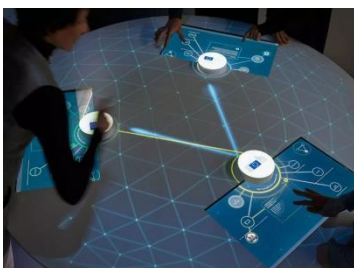
Smart Logistics



New



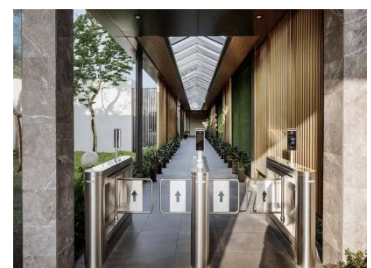
Smart Commercial



Object Recognition



Vehicle terminal



Security Surveillance

7.Ordering Model

Product Model	Status	CPU	DDR	eMMC	Operating Temperature
LC17043200	ACTIVE	RK3588S	4GB	32GB	-20°C - 70°C
LC17086400	ACTIVE	RK3588S	8GB	64GB	-20°C - 70°C
LC1709A800	ACTIVE	RK3588S	16GB	128GB	-20°C - 70°C

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

8.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

Vehicle Terminal



LPA3588



LPA3568



LPA3399Pro



LPS3399Pro

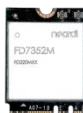
WIFI Module



FD7352S



FD7352P



FD7352M



FD7155U



FD7256S