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Shanghai Neardi Technology Co., Ltd

Enterprise Open Source Hardware Platform

About Neardi

Shanghai Neardi Technology Co., Ltd. was established in 2014. It is a national high-tech enterprise and an official strategic partner of Rockchip. It focuses on the research and development and production of enterprise-level open-source hardware platforms, providing customers with core modules, industry boards, development boards, touch tablets, and industrial control hosts. The company adheres to the core concept of technological innovation and professional services and uses Neardi Technology's technical advantages and industry experience to help partners achieve rapid mass production of products. Choosing Neardi's products in product development can save development cycles, reduce investment in manpower and financial resources, reduce the risk of project failure, and improve product competitiveness. The open-source hardware platform will be your product accelerator.

Neardi Technology's core team is composed of many technical backbones with senior industry experience and has established a good partnership with the original SOC manufacturer. The products we design are widely used in various fields such as commercial display retail, machine vision, smart medical care, vehicle terminals, industrial control, and domestic substitution. The technical team is good at technical breakthroughs in high-precision and difficult projects. There are some industry benchmarks and brand customers in various industries, which have been tested by the market and industry.

In the future, we will continue to strengthen technological innovation, establish ourselves in industry competition with technological innovation and professional services, and build Neardi Technology into a well-known brand of open-source hardware.

Neardi Technology was established in 2014

Headquartered in Shanghai

Shenzhen branch，Suzhou production base

60+ employees，**75%** are R&D personnel

★ Company Advantages

Software Design
Product ODM
Custom OS
Bulk Delivery

★ Key Products

System On Module
Development Board
Embedded Computer
Vehicle Terminal
WIFI module

corporate history

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2014

Neardi Technology was established.

2015

PCBA shipments have reached 100,000 units.

2017

Became an official strategic partner of Rockchip.

The first air purifier product was launched.

2021

shipment of vehicle terminals has reached 10,000 units Strategic.

cooperation with Midea Group for the research and development of robot products.

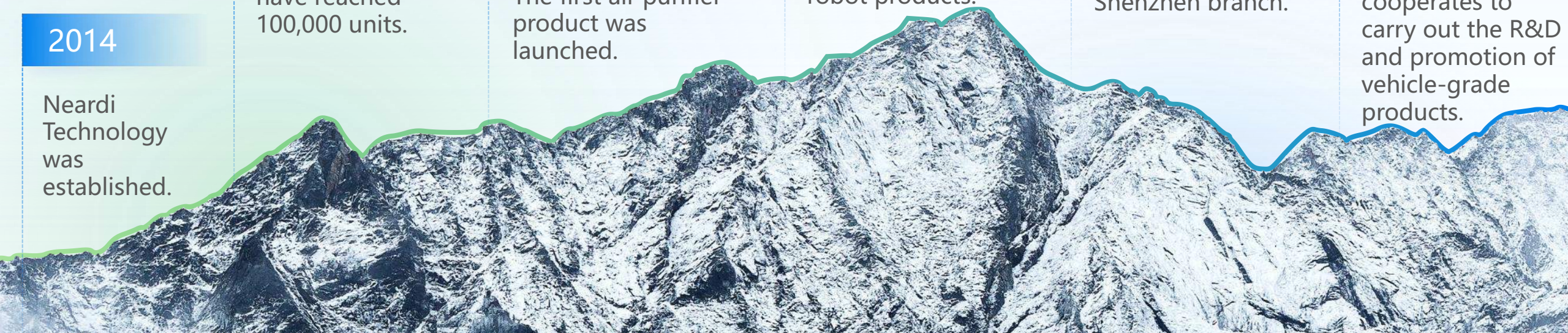
2022

An official strategic partner of SeekWave. Launches multiple Wi-Fi module products.

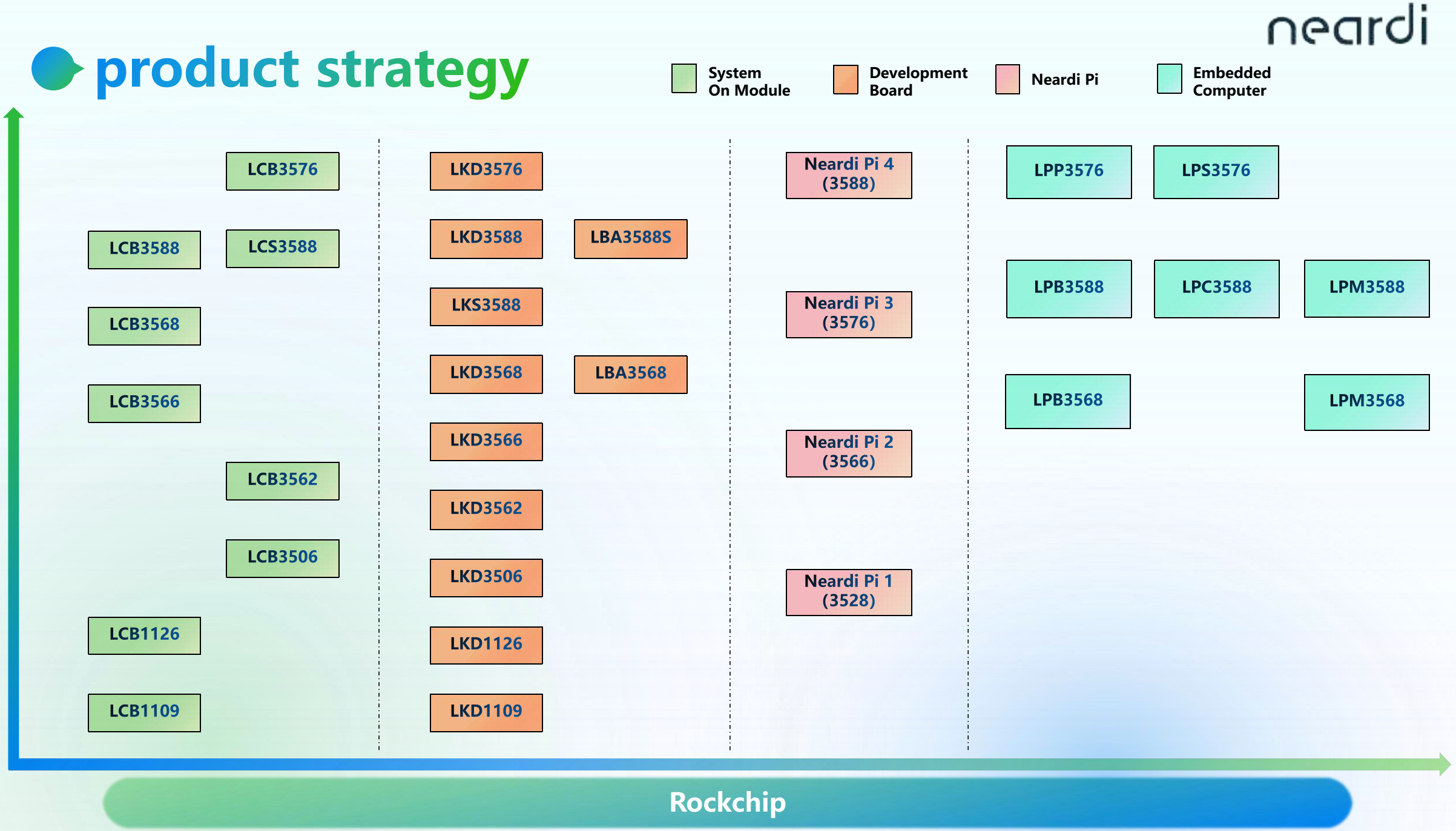
Established a Shenzhen branch.

2024

HISI and NVIDIA product lines were established and a variety of products were launched. Black Sesame Intelligent cooperates to carry out the R&D and promotion of vehicle-grade products.



product strategy



product strategy

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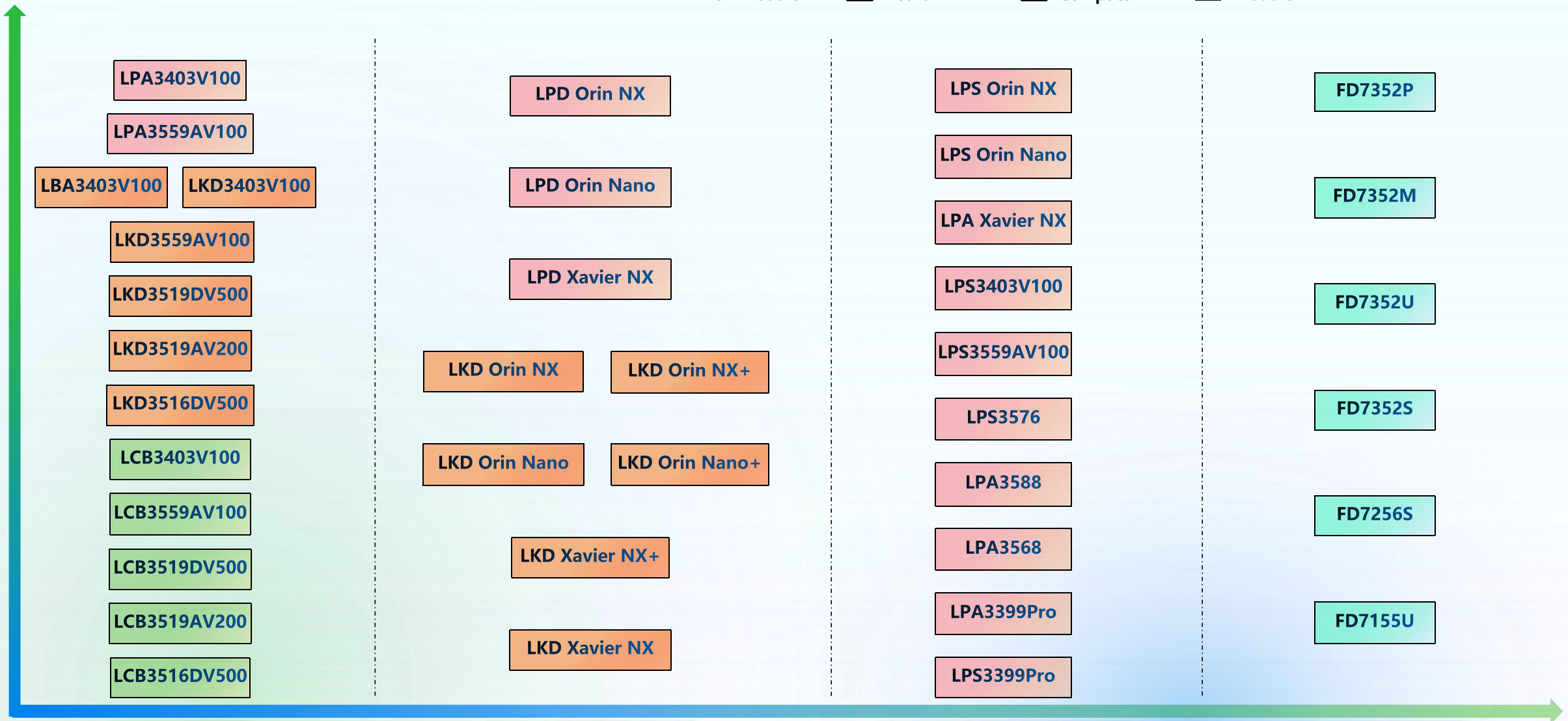
System On Module | Development Board | Embedded Computer | WIFI Module



Technical Support

Hardware Reference Materials

Product manual

2D/3D diagrams

Circuit schematic

Bill of Materials

Pinout

Datasheet

SDK

Android

Debian/Ubuntu/

Buildroot

Hardware Design

ARM-based hardware design services

Embedded systems and other hardware solutions

OS Customize

Android

Debian/Ubuntu/

Buildroot

WIKI

Development Guide

FAQ Document

OS Compilation

Dome API

Solutions

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Rockchip

- Tablet and PC
- Industrial Control
- Machine Vision
- Security Monitoring
- Smart Home

HISI

- Video Surveillance
- Conference System
- Low-Light Camera
- Home System
- Action Camera

NVIDIA

- Autonomous Driving
- Vehicle-to-Everything (V2X) Coordination
- Unmanned Aerial Vehicle (UAV)
- Mobile Robot
- Low-Speed Autonomous Driving

Vehicle Terminal

- Parking Assistance
- Traffic Conditions
- Vehicle Status Monitoring
- Fleet Management

WIFI Module

- Smart Home
- Wireless Internet of Things (IoT)
- Industrial Automation
- Consumer Electronics

System On Module

LCB3588

CPU：RK3588，4*Cortex-A76 + 4*Cortex-A55
DDR：LPDDR4，4GB/8GB /16GB
EMMC：32GB/64GB/128GB
GPU：ARM Mali-G610 MP4
NPU：6.0TOPS
VPU：8K video codec, 8K display output
OS：Android /Linux
Size： 75(L)* 70(W)*8.2(H)mm(B2B)

LCB3566

CPU:RK3566,4*Cortex-A55
DDR:LPDDR4，2GB/4GB/8GB
EMMC:16GB/32GB
NPU：1TOPs
VPU: 4K 60fps decoding, 1080p 60fps encoding
OS：Android / Linux
Size： 62(L)*40(W)*8.3(H)mm(B2B)

LCB3568

CPU：RK3568，4*Cortex-A55
DDR：LPDDR4，2GB/4GB/8GB
EMMC：16GB/32GB
NPU：1TOPs
VPU：4K 60fps video decoding, 1080P 60fps video encoding
OS：Android / Linux
Size： 60(L)*40(W)*7.8(H)mm(B2B)

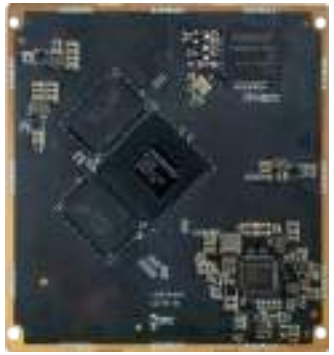
LCB3562

CPU：RK3562，4*Cortex-A53
DDR：LPDDR4，2GB/4GB/8GB
EMMC：16GB/32GB
NPU：1TOPs
VPU：4KP30 H.265/VP9, 1080P60 H.264 video decoder, 1080P60 H.264 video encoder
OS：Android / Linux
Size： 45(L)*45(W)*4.6(H)mm(LCC)

System On Module

LCS3588

CPU：RK3588，4*Cortex-A76 + 4*Cortex-A55
DDR：LPDDR4，4GB/8GB /16GB
EMMC：32GB/64GB/128GB
GPU：ARM Mali-G610 MP4
NPU：6.0TOPS
VPU：8K video codec, 8K display output
OS：Android /Linux
Size： 65(L)* 50(W)*4.5(H)mm(B2B)



LCB3588S

CPU：RK3588S，4*Cortex-A76 + 4*Cortex-A55
DDR：LPDDR4，4GB/8GB /16GB
EMMC：32GB/64GB/128GB
GPU：ARM Mali-G610 MP4
NPU：6.0TOPS
VPU：8K video codec, 8K display output
OS：Android /Linux
Size： 75(L)* 70(W)*8.2(H)mm(B2B)

LCB3399Pro

CPU:RK3399Pro,4*Cortex-A72 + 4*Cortex-A53
DDR：LPDDR3，3GB/6GB
EMMC：8GB/16GB/64GB/128GB
GPU:Mali-T860 MP4
NPU:3TOPS,Supports 8bit/16bit operations
VPU:4K/1080p decoding, 1080p encoding
OS：Android / Linux
Size： 75(L)* 55(W)*7.8(H)mm(B2B)

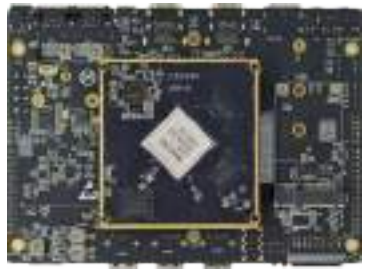
LCB1126

CPU:RV1126,4*Cortex-A7+MCU
DDR：LPDDR3，1GB
EMMC：256MB/512MB
NPU:2.0Tops, support INT8/ INT16
VPU:4K H.264/H.265 30fps decoding, 4K H.264/H.265 30fps encoding
OS：Buildroot
Size：38mm*38mm*7mm(LCC)

Development Board

Neardi Pi 3

Equipped with the RK3576, it features a computing power of 6T. It has 1 mini-PCIe slot for expanding 4G/5G modules and 1 M.2 Key slot for expanding 2242 SSD. Additionally, it includes 2 *Gigabit Ethernet, dual-band WiFi 6, 3* USB 3.0 , 2* Type-C , 2 *MIPI-CSI interfaces, 1* HDMI output, 2* CAN BUS interfaces, 1*RS485 interface, I2C, UART, SPI, MIC, LINE, and Speaker interfaces.



LKD3588/J

Equipped with the RK3588, it features a computing power of 6T. It provides 2 mini-PCIe and 1 PCIe M.2 interfaces for connecting compute cards, with the capability to expand up to 38T. It includes 2 *Gigabit Ethernet ports, dual-band WiFi 6, 3 *USB 3.0 , 6 *CSI interfaces, 4 *HDMI, 1*Type-C , 1*DisplayPort, 1*LVDS interface; SATA, M.2 SSD, I2C, RS232, RS485, UART, CAN, and GPIO interfaces.

LKD3568/J

Equipped with the RK3568, it features a computing power of 1T. It provides 3 mini-PCIe interfaces for connecting compute cards, with the capability to expand up to 10T. It includes 2 Gigabit Ethernet ports, dual-band WiFi 6, 4/5G modules, 3 HDMI ports, 1 VGA port, 1 LVDS interface, 2 USB 3.0 ports, 2 USB 2.0 ports, RS232, RS485, UART, CAN, and GPIO interfaces.

LKD3566

Equipped with the RK3566, it supports a variety of display interfaces and multi-channel data communication interfaces; 1 HDMI, 5 USB 2.0 ports, 1 LVDS, 1 eDP, 1 DSI, 2 CSI, 1 Gigabit Ethernet, WIFI5, BT5.0, 2 RS232, 1 RS485, 1 CAN, I2C, GPIO interface

Development Board

LBA3588S

Equipped with the RK3588S, it features a computing power of 6T. It provides 1 mini-PCIe interface for expansion up to 9TOPS; it supports multi-screen display and multiple camera inputs. It includes 1 Gigabit Ethernet port, dual-band WiFi5, BT5.0, 4/5G, 1 HDMI port, 1 LVDS interface, 1 Type-C port, 3 USB 3.0 ports, M.2 SSD, 2 CSI interfaces, I2C, UART, RS232, RS485, CAN, and GPIO interfaces.

LKS3588

Equipped with the RK3588, it features a computing power of 6T. It provides 2 mini-PCIe interfaces and 1 PCIe M.2 interface for connecting compute cards, with the capability to expand up to 38T. It includes 2 Gigabit Ethernet ports, dual-band WiFi6, 3 USB 3.0 ports, 6 CSI interfaces, 4 HDMI ports, 1 Type-C port, 1 DisplayPort, 1 LVDS interface; SATA, M.2 SSD, I2C, RS232, RS485, UART, CAN, and GPIO interfaces.

LBA3568

Equipped with the RK3568, it features a computing power of 1T. It provides 1 mini-PCIe interface for expansion up to 4TOPS and supports M.2 SSD. It includes 2 Gigabit Ethernet ports, dual-band WiFi6, 4/5G modules, 1 HDMI port, 1 DSI interface, 1 eDP interface, 1 LVDS interface, 4 USB 3.0 ports, 2 USB 2.0 ports, 2 CSI interfaces, I2C, UART, RS232, RS485, 2 CAN, and GPIO interfaces.

LKD3562

Equipped with the RK3562, it features a computing power of 1T, supports multi-channel MIPI-CSI camera inputs, and includes 1 mini-PCIe expansion slot (for compute cards and 4/5G modules). It also has 1 USB 3.0 port, 1 USB 2.0 port, 1 LVDS interface, 2 MIPI-CSI interfaces, 1 Gigabit Ethernet port, WiFi6, 4/5G, and GPIO interfaces.

Embedded Computer

LPP3576

•1*HDMI output;
•2*Gigabit Ethernet ports, WiFi6, BT5.4;
•1*M.2 Key interface, supporting expansion of SSD;
•1*mini-PCIe interface, supporting expansion of 4G/5G modules;
•3*Type-A USB 3.0 ports;
•2*Type-C USB 3.1 ports;
•2*CANBUS; 1 RS485;

LPB3588

•3 HDMI outputs, 1 HDMI input, 1 DP interface output, 1 Type-C with DP1.4 display interface output, 1 dual 8-bit LVDS output, supporting up to 6 independent displays;
•2*Gigabit Ethernet ports, WiFi6, 4/5G modules;
•3*Type-A USB 3.0 HOST;
•1*Type-C USB 3.1 OTG;
•2*CANBUS; 1 RS485; 4 RS232.

LPM3588

•2 HDMI outputs, 1 DP interface output, 1 HDMI input;
•5 Gigabit Ethernet ports, 1 100M Ethernet port, WiFi6, 4/5G module;
•2 Type-A USB 3.0 HOST;
•2 CANBUS, 1 RS485, 2 UART.

Embedded Computer

LPC3588

•3*HDMI outputs, 1*HDMI input, 1*DP interface output, 1*Type-C with DP1.4 display interface output, supporting up to 5 independent displays;
•2*Gigabit Ethernet ports, WiFi6, 4/5G module;
•3*Type-A USB 3.0 HOST;
•1*Type-C USB 3.1 OTG.

LPM3568

•1*HDMI output, 1*MIC input, 1*LINE output;
•4*Gigabit Ethernet ports, WiFi6, BT5.4, expandable with 4/5G module;
•1*M.2 Key M for expandable SSD;
•2*Type-A USB 3.0 HOST;
•2*CANBUS, 1*RS485, 2*RX/TX.

LPB3568

•1*USB 3.0 HOST, 1*USB 3.0 OTG, 2*USB 2.0 interfaces;
•1*VGA, 1*HDMI input, 2*HDMI outputs, 1*dual-channel LVDS, supporting multi-screen independent display;
•2*Gigabit Ethernet ports, WiFi6, 4/5G module;
•2 *UART, 4*RS232, 1*RS485, 2*CANBUS.

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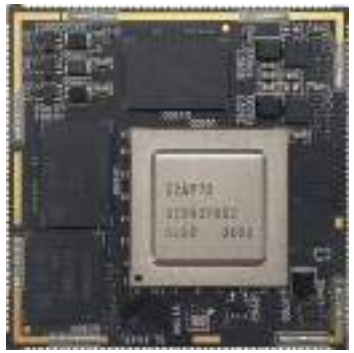
LCB3403V100 SoM

CPU：Hi3403V100，A55 1.4GHz
DDR：LPDDR4，4GB/8GB
EMMC：16GB/32GB/64GB
NPU：10.4TOPS
VPU：Encoding and decoding resolution of 8192 x 8192.
OS：Linux
Size： 50(L)* 50(W)*4.5(H)mm



LCB3519AV200 SoM

CPU:Hi3519AV200,Ultra-High Definition Intelligent Camera SOC
DDR:LPDDR4，4GB/8GB
EMMC:16GB/32GB/64GB
NPU：2.5TOPs
VPU: Encoding and decoding resolution of 8192 x 8192.
OS：Linux
Size： 50(L)*50(W)*4.5(H)mm

LBA3403V100 SBC

- 1*HDMI 2.0 output, 1*MIPI-DSI interface, supporting 4K60fps;
- 2*MIPI-CSI interfaces, supporting 4*MIPI camera inputs;
- 1*Gigabit Ethernet port, dual-band WiFi6, BT5.4;
- 1*MINI-PCIe interface, supporting expansion of NPU computing cards;
- 1*Type-A USB 2.0;1*Type-A USB 3.0;
- 3*UART, 1*RS485.

LPA3403V100 EMBEDDED PC

CPU:Hi3403V100，A55 1.4GHz
NPU:10.4TOPS

- 1 HDMI 2.0 output, supporting 4K60fps;
- 1 Gigabit Ethernet port, dual-band WiFi6, BT5.4;
- 1 MINI-PCIe interface, expandable with NPU computing card;
- 1 Type-A USB 3.0, 1 Type-A USB 2.0;
- 3 UART, 1 RS485.

Size：195(L)* 105(W)*36(H)mm

NVIDIA

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LKD Xavier NX

- NVIDIA Jetson Xavier NX
- 6*Carmel 2.0GHz
- 384 CUDA Cores 48 Tensor Cores
- 21TOPS
- 1*HDMI2.0,1*MIPI-DSI
- 2*MIPI-CSI(4*mipi camera)
- 2*1000M Ethernet,WIFI6
- 1*mini-PCIe,2*M.2 Key
- 3*USB 3.0,1*USB2.0,1*Type-C
- 3*CAN,4*RS485,1*UART

LKD Orin Nano

- NVIDIA Jetson Orin Nano
- 6*A78 1.5GHz
- 1024 CUDA core 32Tensor Core
- 20TOPS / 40TOPS
- 1*HDMI2.0,1*MIPI-DSI
- 2*MIPI-CSI(4*mipi camera)
- 2*1000M Ethernet,WIFI6
- 1*mini-PCIe,2*M.2 Key
- 3*USB 3.0,1*USB2.0,1*Type-C
- 3*CAN,4*RS485,1*UART

LKD Orin NX

- NVIDIA Jetson Orin NX
- 6*A78 2.0GHz
- 1024 CUDA core 32Tensor Core
- 70TOPS / 100TOPS
- 1*HDMI2.0,1*MIPI-DSI
- 2*MIPI-CSI(4*mipi camera)
- 2*1000M Ethernet,WIFI6
- 1*mini-PCIe,2*M.2 Key
- 3*USB 3.0,1*USB2.0,1*Type-C
- 3*CAN,4*RS485,1*UART

LPD Orin NX

- 2*1000M Ethernet,WIFI6
- 1*HDMI2.0 OUT
- 3*Type-A USB3.0
- 1*Type-A USB2.0
- 1*Type-C USB3.1
- 2*M.2 Key,扩展SSD
- 1*mini-PCIe,扩展4G/5G模块
- 3*CAN，4*RS485

Vehicle terminal

LPA3588

•3*HDMI out,1*HDMI in,1*DP out,
•1*Type-C with DP1.4 display interface output，1*Dual 8-bit LVDS outputs, supporting up to six screens with independent display；
•2*1000M Ethernet,Supports the extension of 4G/5G modules.
•3*Type-A USB3.0 HOST.
•8*AHD Camera.
•2*UART,4*RS232,1*RS485,2*CANBUS
•1*SATA,Expandable with M.2 SSD.

LPA3568

•2*1000M Ethernet,Supports the extension of 4G/5G modules.
•2*HDMI out,1*VGA out,1*LVDS out.
•8*AHD Camera.
•2*USB3.0,2*USB2.0
•1*HDMI in,Expandable to dual MIPI cameras.
•4*RS232,1*RS485,2*UART,2*CAN，1*GPIO

LPA3399Pro

•1*1000M Ethernet,Supports the extension of 4G/5G modules.
•5*AHD Camera input,1*HDMI output,3.5mm Audio Input and Output,2*USB 3.0,2*USB 2.0.
•2*RS232,1*RS485,1*CAN
• translates to "4-channel controllable voltage output, 7-channel switch quantity input detection

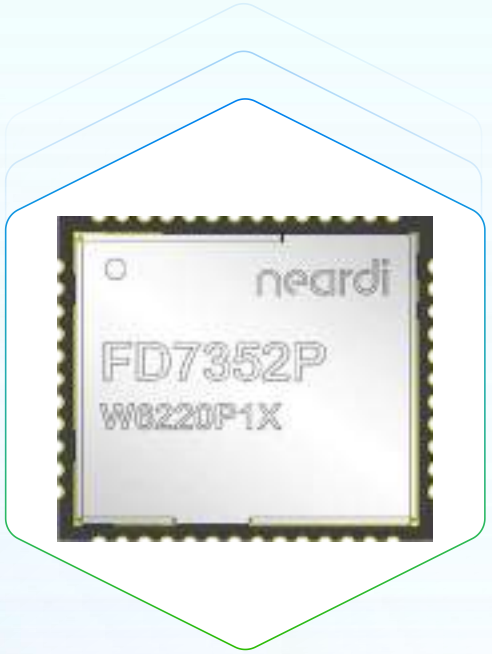
LPS3399Pro

•1*USB3.0 HOST,1*USB3.0 OTG.
•1*HDMI2.0 output,1* AHD output
•5*AHD Camera input.
•2*1000M Ethernet,Supports the extension of 4G/5G modules.
•1*UART,2*RS232,1*RS485,1*CANBUS .
•3-channel controllable power supply output, 2-channel switch input

WIFI Module

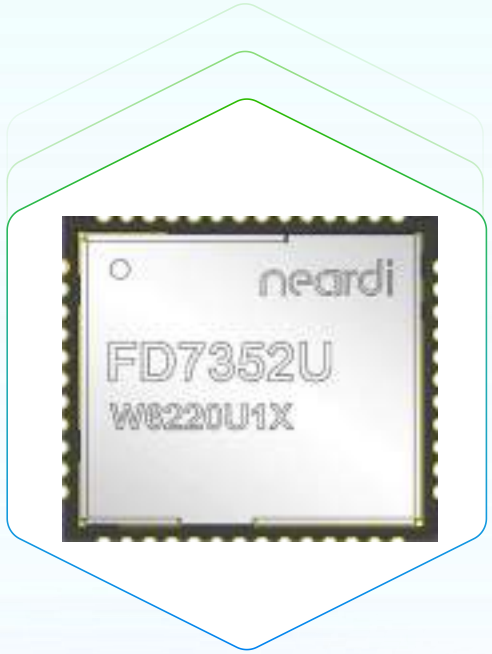
FD7352S

EA6652
Interface: SDIO
WIFI/Bluetooth: WIFI 6 / BT 5.4
Frequency Bands: 2.4G; 5G
Antenna: 2T2R
Maximum Physical Layer Data Rate for 2.4G/5G: 752.4Mbps/1.2Gbps
Bandwidth: 80MHz
Throughput: 550Mbps
Certifications: SRRC/ROHS/CE/FCC
Dimensions: 15mm*13mm



FD7352P

EA6652
Interface: PCIe
WIFI/Bluetooth: WIFI 6 / BT 5.4
Frequency Bands: 2.4G; 5G
Antenna: 2T2R
Maximum Physical Layer Data Rate for 2.4G/5G: 752.4Mbps/1.2Gbps
Bandwidth: 80MHz
Throughput: 550Mbps
Certifications: SRRC/ROHS/CE/FCC
Dimensions: 15mm*13mm



FD7352U

EA6652
Interface: USB
WIFI/Bluetooth: WIFI 6 / BT 5.4
Frequency Bands: 2.4G; 5G
Antenna: 2T2R
Maximum Physical Layer Data Rate for 2.4G/5G: 752.4Mbps/1.2Gbps
Bandwidth: 80MHz
Throughput: 550Mbps
Certifications: SRRC/ROHS/CE/FCC
Dimensions: 15mm*13mm

WIFI Module

FD7352M

EA6652
Interface: M.2 key A-E
WIFI/Bluetooth: WIFI 6 / BT 5.4
Frequency Bands: 2.4G; 5G
Antenna: 2T2R
Maximum Physical Layer Data Rate for 2.4G/5G: 752.4Mbps/1.2Gbps
Bandwidth: 80MHz
Throughput: 550Mbps
Certifications: SRRC/ROHS/CE/FCC
Dimensions: 15mm*13mm

FD7256S

EA6621
Interface: SDIO
WIFI/Bluetooth: WIFI 6; BT 5.0
Frequency Bands: 2.4G; 5G
Antenna: 1T1R
Maximum Physical Layer Data Rate: 600.5Mbps
Bandwidth: 80MHz
Throughput: 520Mbps
Certifications: SRRC/ROHS/CE/FCC
Dimensions: 12mm*12mm

FD7155U

EA6521
Interface: USB
WIFI/Bluetooth: WIFI 6; BT 5.0
Frequency Bands: 2.4G; 5G
Antenna: 1T1R
Maximum Physical Layer Data Rate: 286.8Mbps
Bandwidth: 40MHz
Throughput: 260Mbps
Certifications: SRRC/ROHS/CE/FCC
Dimensions: 13mm*12.2mm

Black Sesame Technologies

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SOM-A-A1000/L

AI Performance: 58 TOPS (16T A1000L)
CPU: A1000/L,8*Cortex-A55
EMMC/SD: 2/4+32GB;4+64GB
GPU: Arm Mali-450 MP2 1GHz
OS: Linux
Size: 80(L)*90(W) mm
8*Camera,2*PCIE,USB3.0,USB2.0,8*Optical Port,1*1000M Ethernet ,2*CAN,4*UART, 1*RS232,1*HDMI,1*SDIO

SOM-π-A1000/L

AI Performance: 58 TOPS ((16T A1000L))
CPU: A1000/L,8*Cortex-A55
EMMC/SD: 2/4+32GB;4+64GB
GPU: Arm Mali-450 MP2 1GHz
OS: Linux
Size: 52(L)*52(W) mm
12*Camera,4*CSI,2*PCIe,1*USB3.0, 1*USB2.0,2*GbE,6*I2C,4*UART,6*SPI,2*I2S, 246*GPIO,2*CAN

SOM-B-A1000/L

AI Performance: 58 TOPS ((16T A1000L))
CPU: A1000/L, 8*Cortex-A55
EMMC/SD: 2/4+32GB;4+64GB
GPU: Arm Mali-450 MP2 1GHz
OS: Linux
Size: 69.6(L)*45(W) mm
12*Camera,4*CSI,2*PCIe,1*USB3.0,1*USB2.0, 2*GbE,6*I2C,4*UART,6*SPI,2*I2S,246*GPIO, 2*CAN

SOM-A1000 Development Kit

Equipped with the A1000/L, it has a computing power of 58 Tops ;
2*PCIe 3.0,Supports M.2 SSD;
1*Type-A USB3.0,1*Type-A USB2.0;
8*Optical Port,1*1000M Ethernet,4*UART, 2*CAN,1*RS232,1*HDMI,1*SDIO
Size: 200(L)* 150(W)*28(H)mm

Application Scenarios

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Artificial Intelligence

Machine Vision

Industrial Control

Energy and Power

Smart Tablet

Virtual Reality

Application Scenarios

Smart Logistics

New Retail

Smart Commercial Display

Object Recognition

Vehicle terminal

Security Surveillance

合作案例

Industrial vehicle controller

Counterbalanced stacker

Smart Robot

Electric Motorcycle Dashboard

AI Computing Server

Autonomous logistics vehicle

合作案例

Inspection robot

Warehouse robot

AGV forklift

Electronic information display

Charging pile

Energy storage control cabinet

Partners


SOCIF
Joyoung
Gaussian Robotics
NARI
NARI GROUP CORPORATION
sunlighten
China Mobile
Tencent
Midea
Arima
COMMUNICATIONS
BOZHON
ZOOMLION
BOE
LOGIC

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