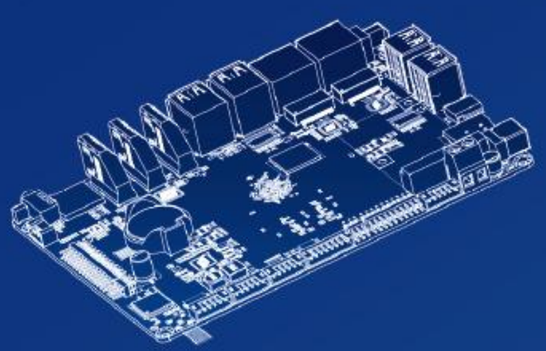
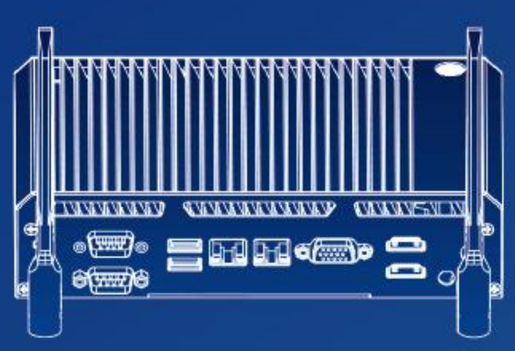
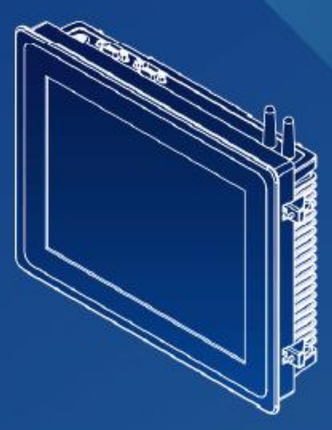
Sharevdi



Edge AI motherboard



Embedded Mini PC



Industrial Panel PC

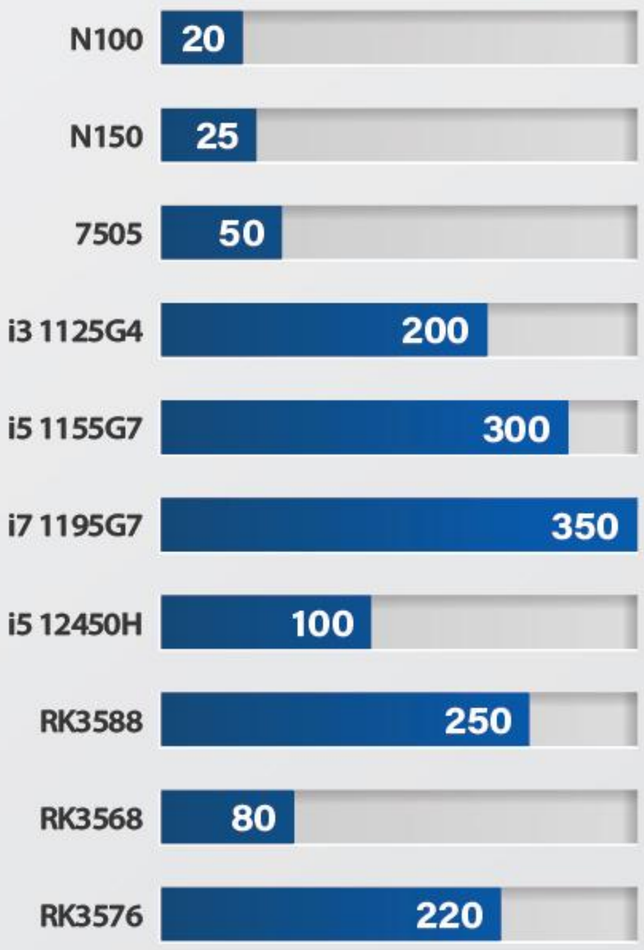
RK3588 Edge AI Performance Benchmarks

The RK3588 (6TOPS NPU) is tailored for high-precision industrial edge AI scenarios, solving the difficulty of selecting suitable solutions for complex 4K visual tasks. It covers core evaluation factors to match high-end application demands:

	Throughput	Latency	Efficiency
Measurement	The number of 4K high-precision images processed per second.	The time delay of 4K local AI inference between a data request and its response.	How much energy and cost are being used effectively for 4K high-precision inferencing.
Definition	300+ Images / Second Higher is better	<60 Milliseconds Lower is better	Throughput/W： 45+ Img/(s · W) Throughput/$ Higher = Better
Scenario	High-precision high-volume data inferencing	Real-time high-precision AI analysis	Prolonged high-precision edge computing
Application	4K Industrial Visual Inspection (Semiconductor wafer detection, high-end equipment appearance QC)	Industrial Endoscope Image Analysis, High-end AGV Path Planning	7×24 Smart Factory High-end Production Line Monitoring

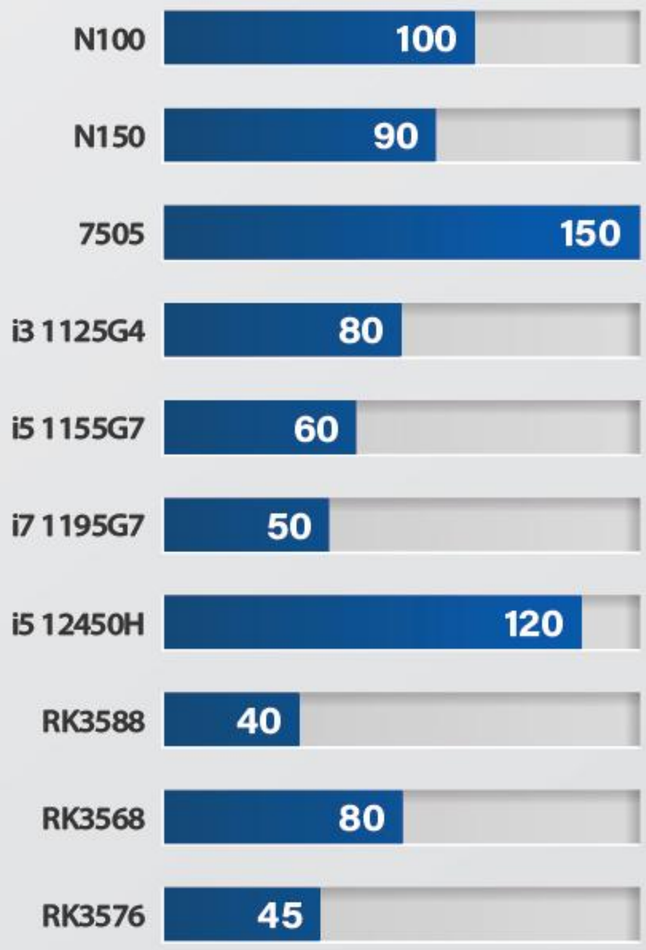
Your Guide to **Edge AI Solutions** (Target Hardware)

Intel 11th-gen Iris Xe delivers higher throughput; RK NPUs balance throughput & efficiency



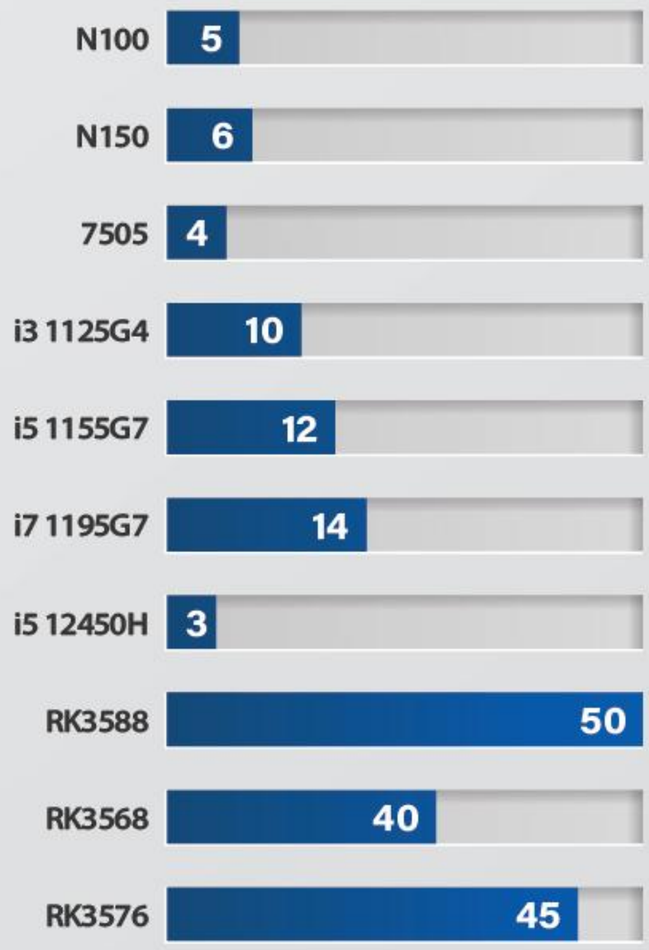
• **Throughput** Unit: images / second on Yolov5n

RK NPUs excel in low-latency lightweight tasks; x86 iGPUs suit balanced latency demands



• **Latency** Unit: milliseconds

RK NPUs provide outstanding power-efficiency; Intel iGPUs offer moderate cost-efficiency



• **Throughput** Unit: Yolov5n_Throughput / watt

Industrial Automation & AMR Solution

Rugged Environmental Resilience

Wide-Temperature Operation(-10℃~60℃)
24/7 Rugged Reliability
Vibration & Shock Resistance

Versatile Connectivity & Expansion

Rich I/O Interfaces (GigE, COM, USB)
Modular Design for Easy Expansion
Tailored Data Processing

Enhanced Security & Stability

Data Encryption & Secure Boot
Redundant Power Supply
Long-Term Product Lifecycle Support

Embedded Controller F27H

- Fanless & Rugged: Built for 24/7 operation
- 11th Gen Intel® Core™ i3/i5/i7 Processors
- Supports AI Accelerator Sticker
- 2xHDMI;6xUSB;Switch Extension Header, Lockable DC Port (12V~24V),6×RS232/RS485
- 4×LAN ports, 1 port supports EtherCAT 1×GPIO + 2×VCC/GND, 8DI+8DO with opto-isolation
- Support WIFI/BT/4G Module/TPM2.0
- Supports wall, panel, DIN-rail and rack mounting.

Industrial BOX PC F24

- Fanless & Rugged: Built for 24/7 operation
- Intel 11th Gen Pentium 7505 processor
- 4*COM RS232/RS485 ,1x PS/2,1x RJ11, 2x Gigabit LAN ports, 1x HDMI, 1x VGA, and 1x DP port
- Support 9-36V power supply
- Support WIFI + BT / 4G Module / TPM2.0
- Windows 10/Windows 11/Linux
- Supports wall, panel, DIN-rail and rack mounting.

Fanless Box PC F28

- Fanless & Rugged: Built for 24/7 operation
- Front-facing centralized I/O design
- Intel 12th Gen Core i3/i5/i7 Processors
- 6xCOM(RS232/RS485);2xLAN;10xUSB;
- 2xHDMI,1xVGA;Lockable DC Port (12V~24V)
- Support WIFI/BT/4G Module/TPM2.0
- Windows 10/11/Linux

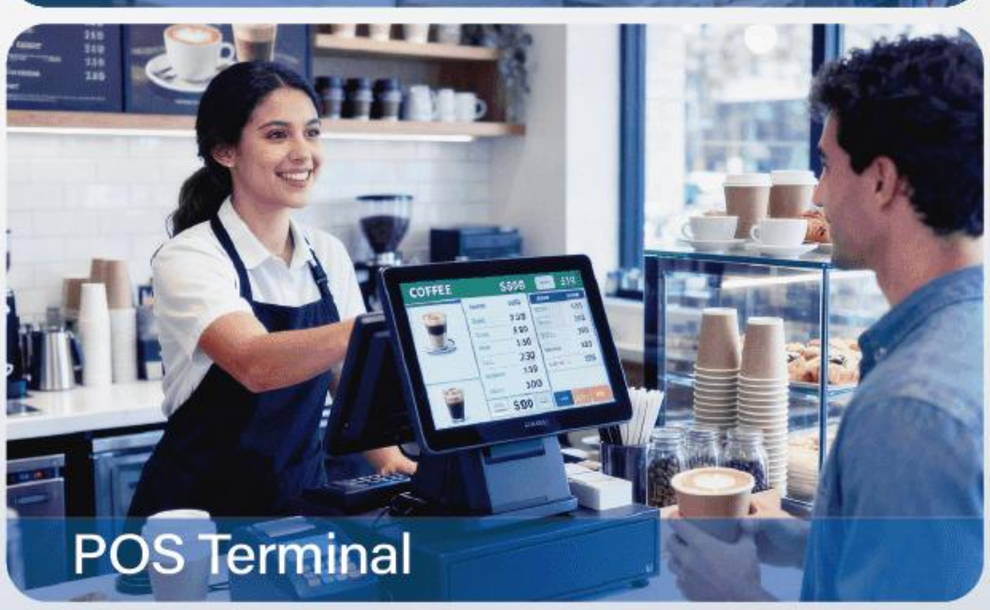
7" HMI Panel Computer

- IP65-rated Industrial fanless design
- Flat 7 inch capacitive 10-point touch screen
- RK3576, 8GB RAM, 128GB eMMC
- With 2-6 x COM port (RS232 / RS485), 1/2 x LAN port,2-4xUSB
- Support 4G LTE/WIFI/BT module
- Optional mounts: VESA, stand, embedded
- Android /Linux System

AGV Control Terminal

- Fanless & automotive-grade design for AGV motion control
- Intel N95/N100/N305 processors
- 3pin power, 2×GMSL,6x Ethernet (2 support EtherCAT, ≥64 axes), 4×USB3.0, DP, HDMI, audio & dual 34pin vehicle terminals
- Isolated DI/DO (2500VAC, NPN/PNP); 24V/1A Power-DO with protection; 4Mbps+ RS485 (3000VDC isolation); 2.5kV isolated CAN with ESD; 8Ω 15W Class D amplifier
- 2×M.2 M-Key slots (supports AI stick), support Wi-Fi/BT, 4G/5G modules.
- 9-36V Power supply
- Linux System

Cloud Thin Client / AI PC Solution



Thin Client F23-14th Gen

- Smart NUC design
- Intel Core Ultra 14th Gen processor Series
- 1x Full function Type C, 4xUSB3.0, 2xUSB2.0, 2xLAN
- 4 Display 2 x HDMI, 1 x DP
- Support Resolution 8K@60Hz
- WIFI5/6+ BT /4G module(with SIM card slot) / TPM2.0
- Windows10/11/IoT/Linux

POS Embedded Board N3710

- Industrial motherboard optimized for POS system
- Intel Celeron N3710
- 8GB RAM,128GB SSD
- 5xUSB(5V),1xUSB(12V input) 2xCOM (optional)
- 1x RJ12; 1xPS/2; 2xLAN; HDMI+DP; Lockable DC Port;
- 1xeDP,1xLVDS
- Support WIFI/BT/4G/TPM2.0
- Windows 10/Linux

Mini PC F25-N150

- NUC compact design
- Intel N100/N150 processor
- 8GB/16GB RAM,128GB/256GB/512GB SSD
- 1x DP and 2 HDM,Support 4K display
- 2xLAN;6xUSB;ATX;12V DC
- 1x Full function Type C
- Support WIFI/BT/4G/TPM2.0
- Windows 10/11/Linux

Thin Client R2 Plus

- Desktop Cloud Computing Solution
- Quad core Cortex-A55,2GB RAM DDR4,16GB Flash
- 2x LAN,4xUSB2.0, 2xUSB3.0, 1xVGA , 1xHDMI, 1xDC Power, 1xSPK&MIC, 1xSD card
- Support Peripherals via USB- Printer, Scanner etc
- Video Resolution 1920*1080px
- Support Windows10/11 / Server 2022/2025 / Linux

Edge Data Collection & Gateway Solution

Intel® Core™ i5 12th Gen | Rugged & Durable | 2x 10G SFP+ | 6x 2.5GbE ports | WIFI & 4G/5G

Industrial Mini Computer F24-SFP+

- Fanless & Rugged: Built for 24/7 operation
- Intel 12th Gen Core i3/i5/i7 Processors
- 6 x Intel 2.5G Ethernet LAN ports+ 2 x Intel 82599ES SFP+ ports
- 5xUSB; HDMI+DP; external SIM; ATX; Type C; 12V DC
- Support WIFI/BT/4G/TPM Module
- Windows 10/11/Linux
- Supports wall, panel, DIN-rail and rack mounting.

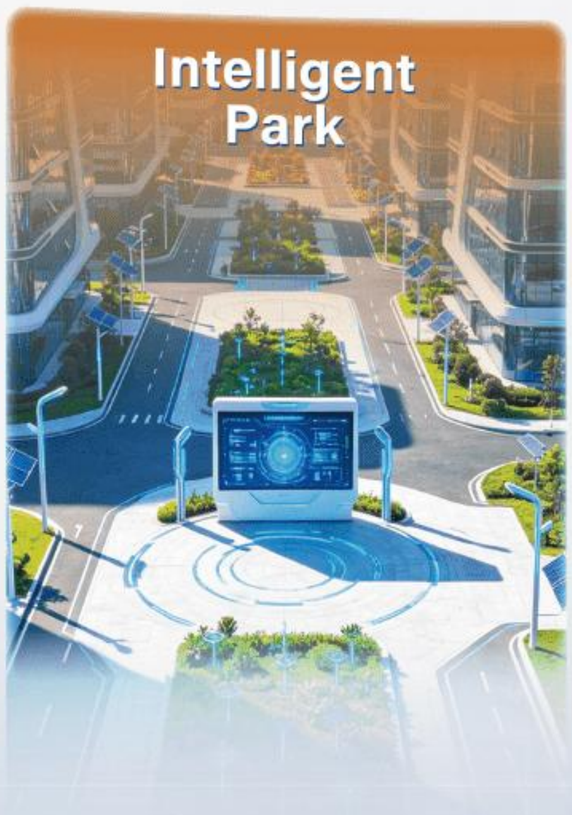
Firewall Appliance F24H

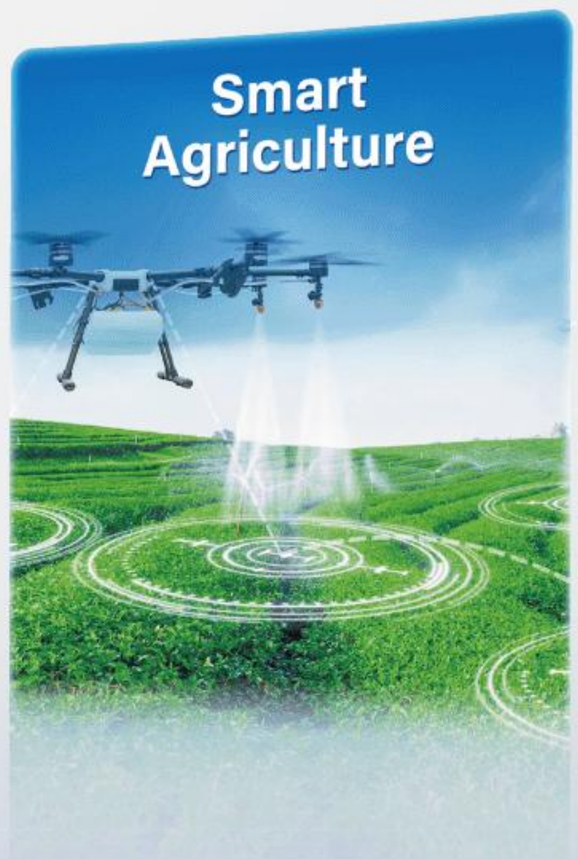
- Fanless & Rugged: Built for 24/7 operation
- Intel Core I3 6006U processor
- 2.5G Ethernet (RJ45) x 6, Intel I226V
- 2xUSB3.0, 2xHDMI, 1xTYPE-C, 1xTF card slot, 1xSIM card slot, 9-36V power supply
- Support WIFI + BT / 4G Module / TPM2.0
- Windows/PfSense/OPNSense/OpenWrt/Untangle
- Supports wall, panel, DIN-rail and rack mounting.

ARM-based Gateway G4

- Micro Box PC with 2.5" PICO ITX board
- Quad-core 64-bit Cortex-A55,2G RAM,16G Flash
- NPU 0.8 TOPs AI Power
- 1xHDMI, 4K 60fps H.265/H.264/VP9 video decoding, 2x Gigabit Ethernet ports 6x terminal-block RS485,4DI/4DO 1xTF card slot,1x2PIN DC,2 × USB 3.0
- Android11, Ubuntu20.04, CentOS8.3, Debian10, openEuler

AI Edge Computing Solution





Improve Security

Increase Productivity

Faster Response

Enhance Safety

AI Edge Gateway G6-F25 (RK3588)

- Rockchip RK3588
- 6TOPS NPU (support 6~26 TOPS AI accelerator stick)
- Equipped with ARM Mali-G610 MC4 GPU
- Supports 8K video encoding / decoding
- 2xLAN; 2xHDMI out+HDMI in; 6xUSB; RS232+RS485; CAN;GND; 8-pin GPIO; Type C; 12V DC
- Ubuntu22.04; Android 12;Debian 11

AI BOX PC G6-F1 (RK3588)

- Fanless and rugged design
- Rockchip RK3588
- NPU 32 TOPS computing power onboard
- Supports 8K video encoding and decoding
- 1xHDMI in; 2xHDMI out; 2xUSB3.0; 4xUSB2.0; 1xRS232; 2xRS485; 2 CAN; 1GND; 4 -pin GPIO
- Support 4G /5G /SIM /WIFI /BT module
- 12V~48V Power Supply

- Ubuntu22.04

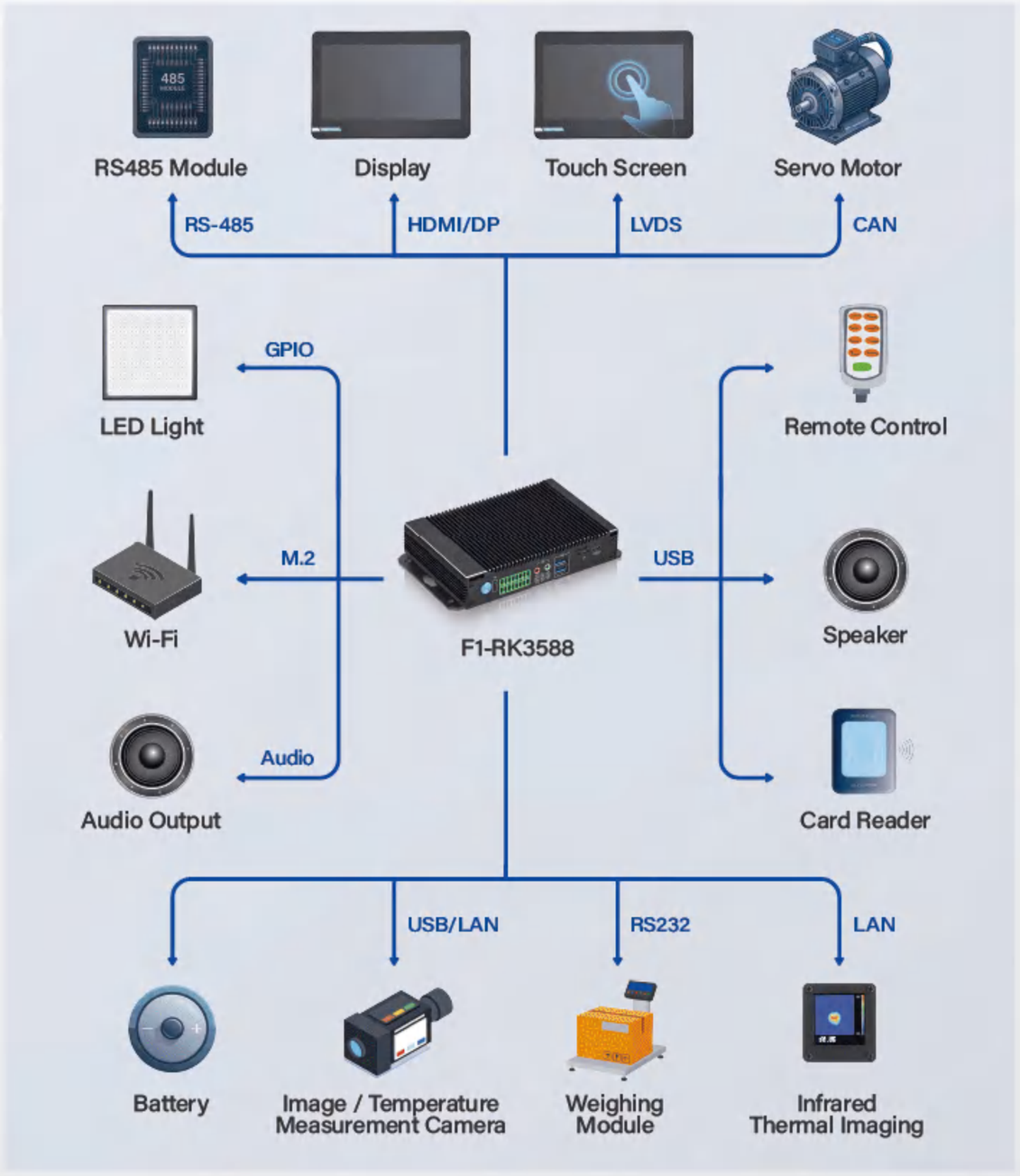
AI Single Board RK3588S Pi

- Industrial Micro Board RK3588S Pi
- NPU 6 TOPS for AI edge computing solution
- GPU Mali-G610,support 8K video encode /decode support.
- 1xUSB 2.0, 2xUSB 3.0, 1xHDMI, 1xLAN, 1xType-C 5V Power Port,1xType-C, 1xAudio, 1xMIPI
- Supports external GPIO expansion
- Debian 11, Ubuntu 22.04

AMR/AGV Solution

Model : AI Box PC F1-RK3588 (Rockchip RK3588, 6 TOPS NPU)

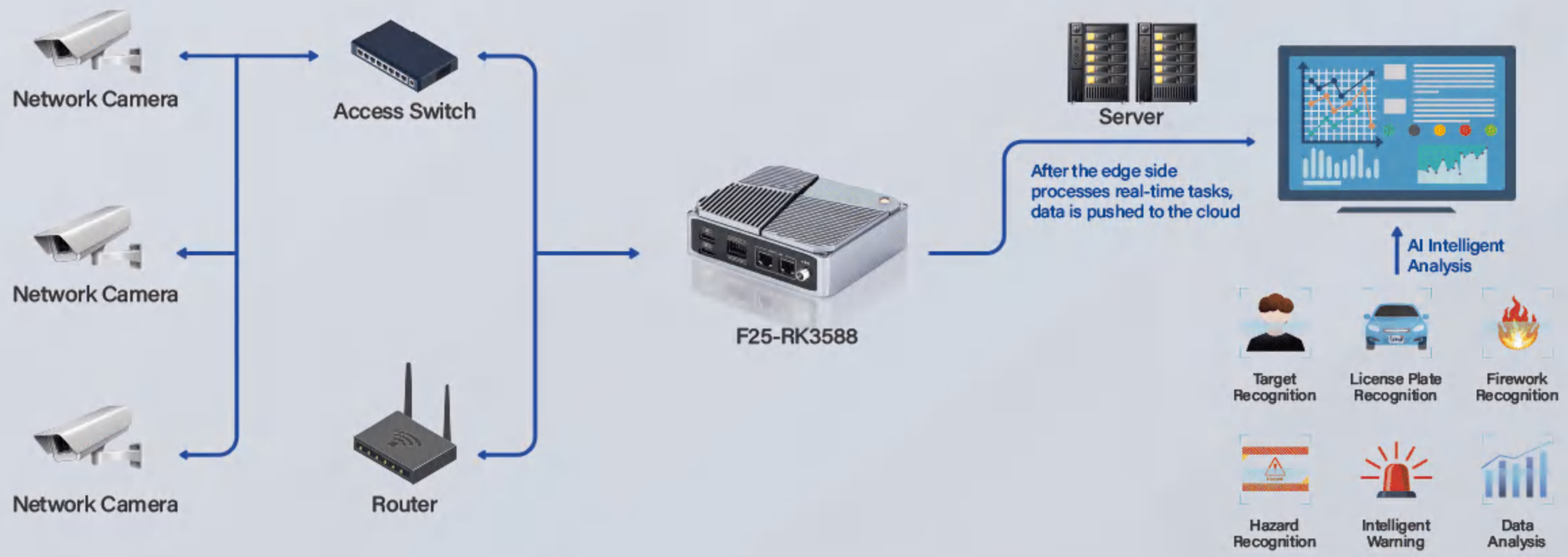
- Rich I/O: RS232/RS485,CAN,GPIO,LAN,USB,HDMI IN/Out for connection with motors, sensors and peripherals.
- Flexible Expansion: M.2 slot supports Wi-Fi/4G/5G modules for wireless and IoT applications.
- Industrial Reliability: Fanless design and wide-temperature operation for stable 24/7 performance.



AI Box Solution (Video Analysis)

Model: AI Box PC F25-RK3588 (Rockchip RK3588, 6 TOPS NPU)

- Multi-camera local processing: On-site video analysis reduces bandwidth load.
- Real-time AI traffic detection: Instantly identifies license plates, hazards, and targets.
- Edge-cloud synergy: Rugged 24/7 outdoor operation with cloud data synchronization.



About ShareVDI Technology

Established in 2006, ShareVDI Technology is a professional solution provider deeply engaged in the field of industrial embedded PC. Focusing on terminal products and solutions for industrial control, edge computing, Industrial automation control, and cloud computing, we take practical value and user experience as the core, adhere to innovation-driven development, and empower the upgrading of industrial intelligence.

20+ YEARS	150+ Staff	100%	>7 YEAR
IN-DEPTH EXPERIENCE IN-COMPUTER SOLUTION	30+ OUTSTANDING ENGINEERS INCLUDED	IN-HOUSE PRODUCTION	PRODUCT LIFE CYCLE SUPPORT

Advanced ODM / OEM Service

Hardware Customization

- Customizable I/O, power consumption & dimensions
- Fast time-to-market

Solution Integration

- EtherCAT & real-time system
- Hardware + Software + Protocol integrated solution

Cost Optimization

- Mass production & supply chain control
- Balanced performance-cost;
- High cost-effectiveness

Address: 11th Floor, Building 1, Phase 1, Dongjiu Innovation and Technology Park I,
No. 76 Bulan Road, Nanwan Street, Longgang District, Shenzhen, China

Email: expo@sharevdi.com

Tel. +86-13534018209

www.sharevdi.com