

INTELLIGENT COMPUTING INDUSTRY APPLICATION SOLUTIONS

Smart Retail and Payment

AI Heterogeneous Computing / Multimodal Interaction
High Speed Transmission / Biometrics



Leading the Digital Transformation of the Retail Industry

In the face of an increasingly complex market environment, the pace of integration and innovation in the retail industry is accelerating, and digital technology is becoming an important means for retailers to improve customer experience, improve operational efficiency, and enhance profitability. Yuntion smart retail and payment solutions are consumer-centric, and optimize store operation efficiency, provide high-quality consumer experience, and promote digital transformation of retail enterprises.





SMART STORES & RESTAURANTS

Yuntion smart store and restaurant solutions integrate intelligent hardware devices such as interactive self-service terminals and smart payment terminals, and integrate cutting-edge technologies such as AI, IoT, machine vision, and 5G.

The solution helps stores achieve agile operations and cost optimization, while allowing customers to enjoy a more personalized and immersive shopping experience.

Technical Features

 <p>AI Heterogeneous Computing Simple & Fast Algorithm Deployment</p>	 <p>Multimodal Interaction</p>	
 <p>Ultra High Frame Rate Image Output</p>	 <p>Gbps Wireless Transfer Rate</p>	 <p>Low Power Consumption Low Carbon Operation</p>

Solution Highlights

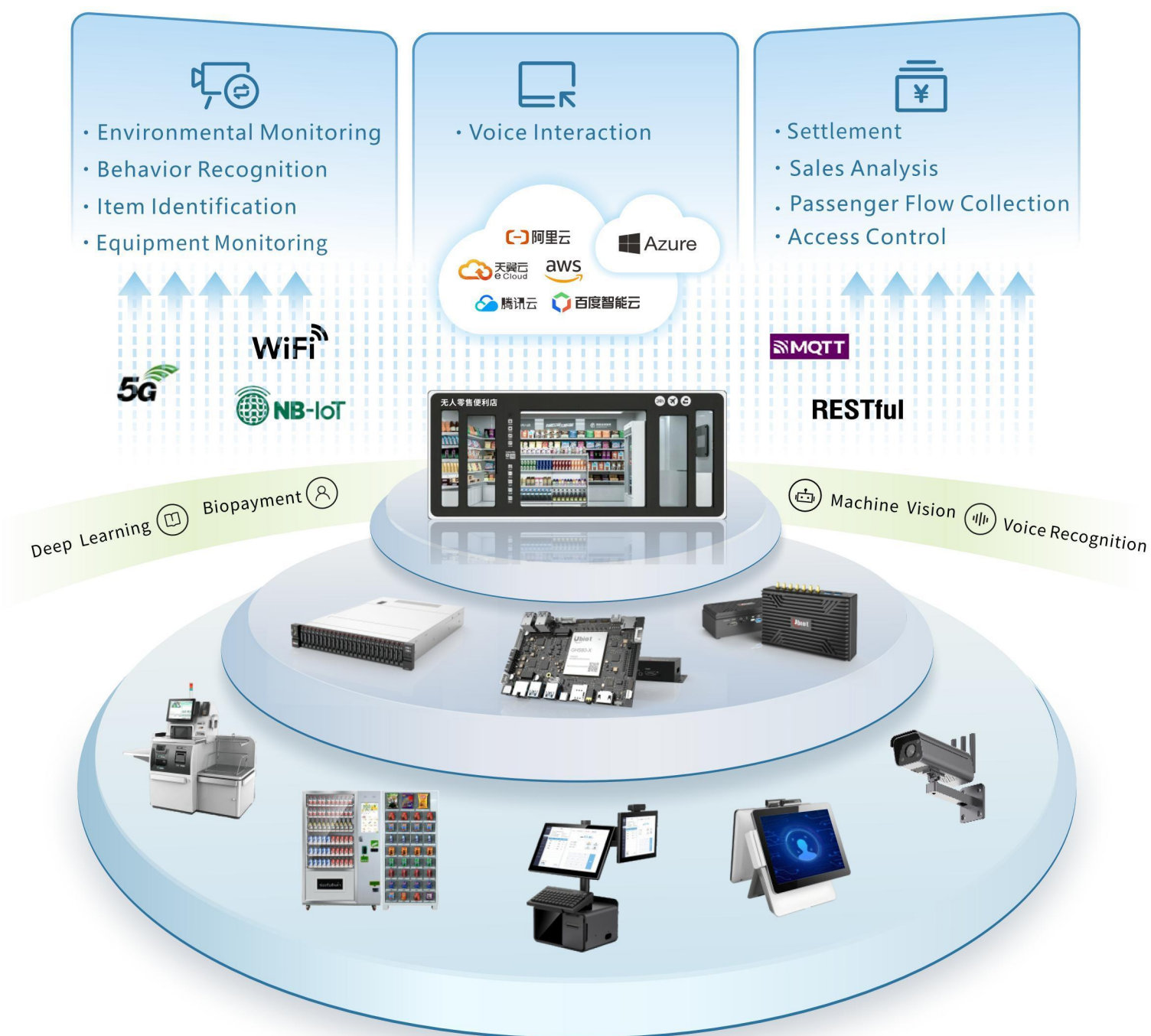
 <p>Access Control Identification</p>	 <p>Self Service</p>	 <p>Automatic Settlement</p>
--	--	---

Application

Unmanned Retail Convenience Store

The unmanned retail convenience store integrates multiple technologies such as composite sensors, biometrics, computer vision, etc.

Through Yuntion intelligent computing products, smart retail terminals can be empowered to create a shopping experience of grab-and-go and non-inductive payment.





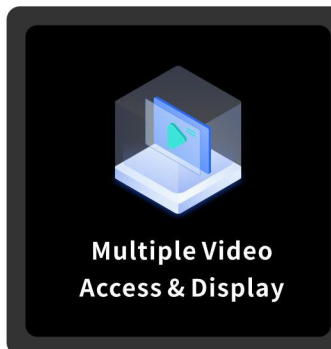
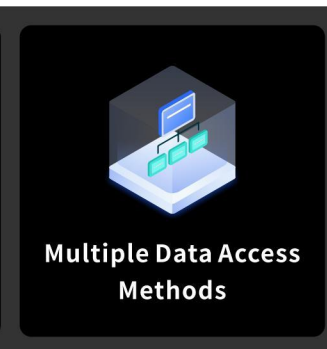
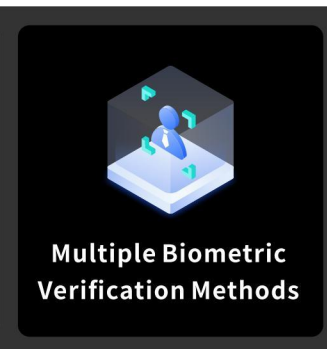

SMART RETAIL EQUIPMENT

By integrating core technologies such as AI, IoT, and edge computing, Yunti on empowers various smart retail devices such as smart self-service terminals, smart shelves, and unmanned vending machines to realize wireless communication, face recognition, human-computer interaction, and biological payment and other functions to help retail stores reduce costs and increase efficiency, improve service efficiency, and enhance customer experience.

Technical Features

 <p>4K 60FPS Dual-screen Display & Touch</p>	 <p>Device-side Real-time High-performance GPU Rendering</p>	
 <p>Multimodal Interaction</p>	 <p>Gbps Wireless Transfer Rate</p>	 <p>Low Power Consumption Low Carbon Operation</p>

Solution Highlights

 <p>Multiple Video Access & Display</p>	 <p>Multiple Data Access Methods</p>	 <p>Multiple Biometric Verification Methods</p>	 <p>3D Structured Light Camera</p>
--	---	---	---

Application

Intelligent Self-service Equipment

The Yuntion intelligent self-service terminal solution is based on the intelligent computing board and adopts Qualcomm Snapdragon chip to provide a stable and reliable 4G wireless network. It supports Android operating system and various peripheral interfaces such as display screen, touch screen, speaker, camera, etc., supports 1080P dual-screen different display, adopts new artificial intelligence algorithm, realizes finding products, services and information, and quickly and accurately self-checkout.



Application

Smart Vending Machine

Yunti on intelligent vending machine software and hardware solutions are based on intelligent computing boards, integrating AI, IoT, mobile payment methods, and dynamic visual recognition technology. Commodity identification and settlement are carried out through AI visual dual-camera recognition, and large-screen display and advertisement customization can also be externally connected.



SMART PAYMENT DEVICE



Yunti on intelligent computing products and solutions are based on SOC heterogeneous processors. With super AI computing power and connection capabilities, Ubiot empowers various payment terminals to achieve intelligent upgrades, which is not only helps merchants realize digital operation, but also refreshes the experience of consumers

Technical Features

High Performance
Heterogeneous
Intelligent Computing

An icon representing heterogeneous computing, showing three 3D blocks labeled 'NPU', 'GPU', and 'CPU' stacked together. The blocks are glowing with a blue and green light.

Support Face
Payment
Interface

An icon showing three human faces being scanned by a facial recognition system. The faces are overlaid with a grid pattern, and the background is a dark blue with vertical lines of light, suggesting a digital or biometric interface.

Wireless
Transfer Rate

Gbps

Low Power
Consumption
Low Carbon
Operation

An icon showing a green leaf with a lightning bolt symbol, representing low power consumption and low carbon operation.

Solution Highlights

<p>Multiple Peripheral Access</p>	<p>Multiple Data Access Methods</p>	<p>Multiple Biometric Verification Methods</p>	<p>3D Structured Light Camera</p>
---------------------------------------	---	--	---------------------------------------

Application

Smart POS Device

Yuntion intelligent POS machine solution is based on GH331 intelligent module, which integrates functions such as printing, scanning code, voice broadcasting, and touch control, helping merchants to provide services such as cashier, ordering, and management. Equipped with Qualcomm Snapdragon SDM450 platform and Android system, integrated high-performance 8-core Cortex-A53 processor, supports multi-channel high-definition camera input, supports dual-screen display and touch, and integrates feature-rich expansion interfaces to achieve efficient wireless communication transmission.



Supported Payment Methods:

Magnetic Stripe Cards	QR Code	Voiceprint
Bluetooth	IC Card	Bar Code
		NFC

Application

Smart Cash Register

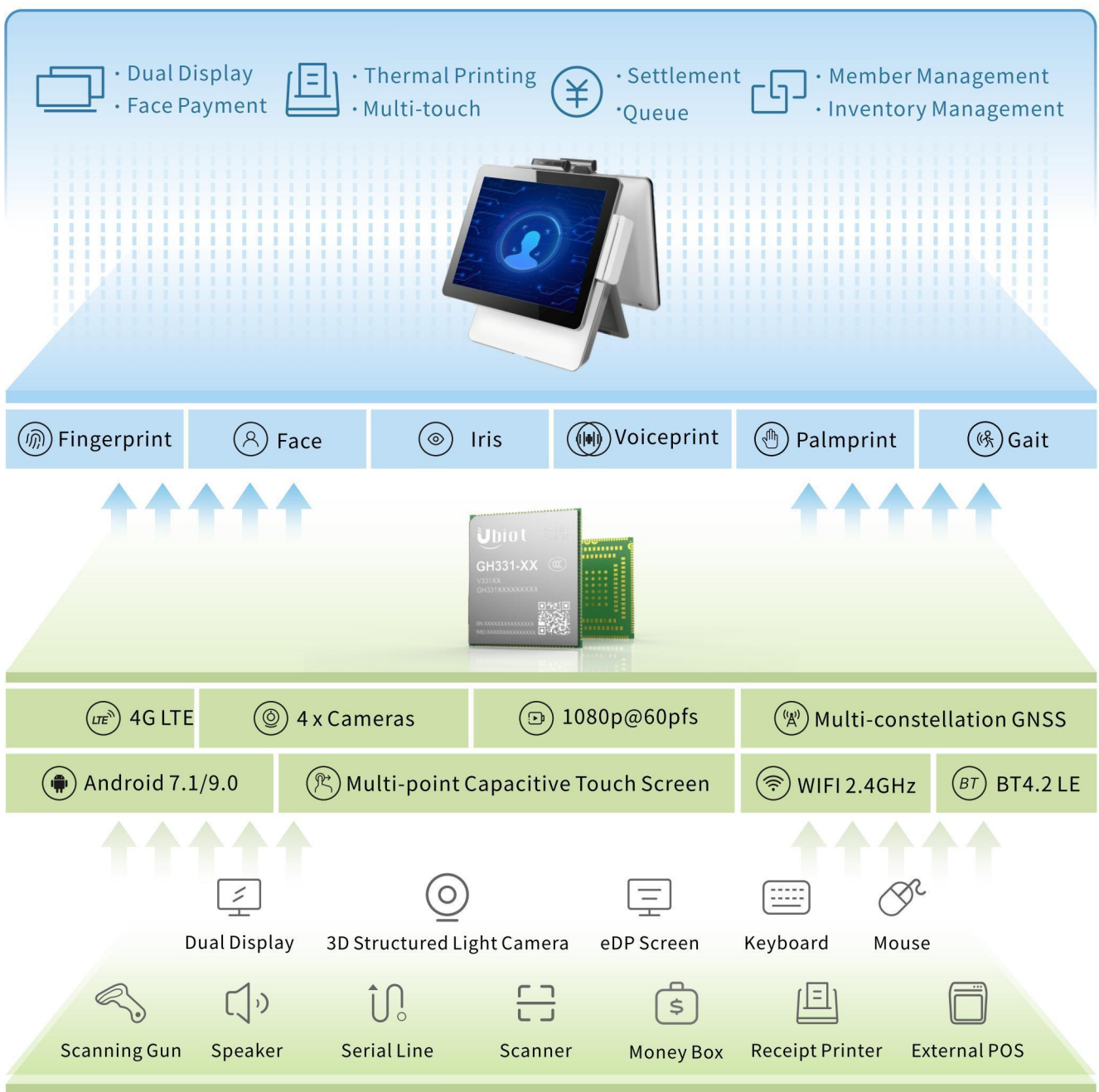
Yuntion smart cash register solution is based on Qualcomm Snapdragon chip, integrates functions such as cashier, weighing, printing, etc. It is equipped with advanced face recognition algorithm, and supports face-swiping payment, QR code payment, digital keyboard and other functions. Customized solutions that integrate software and hardware can be provided according to customer needs.



Application

Smart Biometric POS Machine

Yunti on smart biometric POS machine solution adopts Qualcomm SDM450 processor, realizes POS machine biometric function through low power consumption and high integration embedded industrial mainboard, integrated scanning code, bank card, identity recognition and other functional modules. Customers can make purchases without carrying any payment medium, which is safe and convenient.



SMART FINANCIAL EQUIPMENT

At present, the wave of intelligence is unstoppable, and China's banking industry is actively embracing changes.

Through intelligent financial equipment equipped with Yuntion intelligent computing products and solutions, such as self-service billing machines, and self-service terminals, the efficiency of business processing can be improved, and the increasingly diverse and personalized financial needs of customers can be better met.

Technical Features

AI Heterogeneous Computing
Simple & Fast
Algorithm Deployment

Multimodal
Interaction

Integrated 4G/WIFI/BT/GPS
and other wireless connection
methods

Support Android
or Linux System

Solution Highlights



Self-checkout



Self-service
Card Issuance



Non-cash Business



Virtual Counter

Application

Smart ATM










Smart ATM is a new generation of intelligent autonomous equipment specially designed to realize the digital upgrade of banks.

Yunti on smart ATM solution efficiently integrates multimedia communication technology, remote collaborative operation function and integrated business processing system to help banks optimize business processes and improve customer experience.



Product Selection

Intelligent Network Module

<p>GH580 Flagship AI Intelligent Module Qualcomm QCS8250 CPU: 1+3+4 Kryo 2.84GHz/2.4GHz/1.8GHz NPU: INT8 15TOPS Camera: 64MP/24MP+24MP+24MP+2MP+2MP+2MP WIFI6/BT5.2 USB: USB3.1+Type-C with DP PCIe: 2*2Lane Gen3 Size:39*49*2.4mm</p> 	<p>GH360 4G Intelligent Module Qualcomm SDM660 CPU: 4+4 Kryo 2.2GHz/1.8GHz Camera: 24MP/16MP+16MP Modem: LTE Cat6 Size:43*44*2.6mm</p> 	<p>GH331 4G Intelligent Module Qualcomm SDM450 CPU: 8*A53 1.8GHz Camera: 24MP/13MP+13MP Modem: LTE Cat6 Size: 35*40*2.6mm</p> 
<p>GH331C 4G Intelligent Module Qualcomm SM6115 CPU: 4+4 Kryo 2.0GHz/1.8GHz Camera: 25MP/16MP+16MP Modem: LTE Cat6 WIFI: 2.4GHz/5.8GHz BT5.0 Size:35*40*2.6mm</p> 	<p>GH330 4G Intelligent Module Qualcomm SDM450 CPU: 8*A53 1.8GHz Camera: 24MP/13MP+13MP Modem: LTE Cat6 Size: 43*44*2.6mm</p> 	<p>GH331D 4G Intelligent Module Qualcomm QCM2290 CPU: 4*A53 2.0GHz Camera: 24MP/13MP+13MP Modem: LTE Cat6 WIFI: 2.4GHz/5.8GHz BT5.0 Size:35*40*2.6mm</p> 
<p>GH300 4G Intelligent Module Qualcomm MSM8909 CPU: 4*A7 1.1GHz Camera: 8MP Modem: LTE Cat4 Size: 39mm*29mm*2.6mm</p> 	<p>GH201 4G Cat4 Full Netcom Module Qualcomm MDM9x07 CPU: Cortex-A7 1.3GHz Package: LGA+LCC Size: 32mm*29mm*2.6mm</p> 	<p>GH160 4G Cat1 Module ASR1603,RTOS Package: LGA+LCC Size:23mm*23mm*2.6mm</p> 

Intelligent Computing Mainboard

<p>SD5580(A) Qualcomm 8 Series Flagship SoC Intelligent Computing Platform CPU: Qualcomm QCS8250,4+4 Kryo 3.2GHz Support Multi-screen Display, 4K Video Display & 8K Codec Support Wi-Fi 6/BT 5.0 Wireless Connection Support USB/LAN/RS232/RS485/I2C/SPI Interface Protocols</p> 	<p>SD5360 Qualcomm 6 Series SoC Intelligent Computing Platform CPU: Qualcomm SDM660, 4+4 Kryo 2.2GHz Support Multi-screen Display, 4K Video Display & Decoding Integrated 4G LTE Cat6/WIFI/BT/GPS Multiple Wireless Connections USB/RS232/RS485/I2C/SPI Interface Protocols</p> 
<p>SD5400 RK High-end General SoC Intelligent Computing Platform CPU: RK3588,4*A76+4*A55 2.4GHz Support Multi-screen Display, 8K Video Display & 8K Codec Support WIFI5/BT5.0 Wireless Connection Support USB/LAN/RS232/RS485 /PCIe/SPI Interface Protocols</p> 	<p>SD5300 Qualcomm 4Series SoC Intelligent Computing Platform CPU: Qualcomm SDM450,8*A53 2.2GHz Support Multi-screen Display, Full HD Video Display & Decoding Integrated 4G LTE Cat6/WIFI/BT/GPS Multiple Wireless Connections USB/RS232/RS485/I2C/SPI Interface Protocols</p> 
	<p>SD5200 RK General SoC Intelligent Computing Platform CPU: RK3568, 8*A55 2.0GHz Support Multi-screen Display, 4K Video Display & Decoding Support WIFI4/BT5.0 Wireless Connection Support USB/LAN/RS232/RS485/SPI Interface Protocols</p> 
	<p>SD5000 Qualcomm 2 Series SoC Intelligent Computing Platform CPU: Qualcomm MSM8909,4*A7 1.1GHz Multi-screen Display, Full HD Video Display & Codec Integrated 4G LTE Cat4/WIFI/BT/GPS Multiple Wireless Connections Support USB/RS232/RS485/I2C/SPI Interface Protocols</p> 

Product Selection

Intelligent Edge and Cloud Server

Astro200Pro

Support Up to 5 x QCS8250 SoC
 Max. Computing Power 75 TOPS INT8
 Support Dual Gigabit Ethernet Ports
 Support Dual HDMI 4K Display
 Support USB/RS232/RS485 IO
 Support WIFI6/BT5.0 Wireless Connection



Astro200

Adopt QCS8250 SOC
 Max. Computing Power 15TOPS INT8
 Support Dual Gigabit Ethernet Ports
 Support Dual HDMI 4K Display
 Support USB/RS232/RS485 IO
 Support WIFI6/BT5.0 Wireless Connection



Astro200Lite

Adopt Rk3588 SOC
 Max. Computing Power 6 TOPS INT8
 Support Dual Gigabit Ethernet Ports
 Support Dual HDMI 4K Display
 Support USB/RS232/RS485 IO
 Support WIFI5/BT Wireless Connection



Astro500Pro

Support 4 GPU Inference Cards
 Meet the needs of multi-scenario reasoning;
 Max. AI Computing Power Over 2000TOPS INT8
 Provide 800+ channels of
 HD video real-time analysis (1080P25FPS)



Astro 800Max

Support 2 Second-generation Intel® Xeon Skylake/Cascade
 Series Scalable Processors
 Max. AI Computing Power Over 5000 TOPS INT8;
 Support 24 DIMM Memory Slots
 Integrated 6-channel memory controller
 Support Up to 10 full-height full-length
 double-width GPU cards;



Astro500Lite

Max. support 32 QCS8250 SOC
 Max. Computing Power 480TOPS INT8
 Support Dual Gigabit Ethernet Ports
 Support Dual HDMI 4K Display
 Support USB/RS232/RS485 IO



Astro800

Max. support 96 QCS8250 SOC
 Max. Computing Power 1440TOPS INT8
 Support Dual Gigabit Ethernet Ports
 Support Dual HDMI 4K Display
 Support USB/RS232/RS485 IO



Astro500

Max. support 96 QCS8250 SOC
 Max. Computing Power 1440TOPS INT8
 Support Dual Gigabit Ethernet Ports
 Support Dual HDMI 4K Display
 Support USB/RS232/RS485 IO



Astro800Pro

Support 6 GPU Inference Cards
 Meet the needs of multi-scenario reasoning;
 Max. AI Computing Power Over 3000TOPS INT8
 provide 1200+ channels of HD
 video real-time analysis(1080P 25FPS)





YunTion Wireless Technology (Shenzhen) Co., Ltd.

Website: www.yunTion.com

Business Cooperation:

86 189 0246 9335

Email: navy.yao@yunTion.com

Address: Room 1007-1008, Block C, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen

YunTion was established in 2019 and is committed to becoming the world's leading provider of full-scene intelligent computing and machine vision infrastructure solutions. YunTion is committed to empower applications in all walks of life with intelligent computing and machine vision technology, and build an intelligent world where everything perceives. Ubiquitous connections and perceptions are built.

Prerequisites and Foundations for an Intelligent World; Continuously improving computing power and algorithms make intelligence omnipresent. Through the continuous construction of full-scene infrastructure, consumers can get the ultimate personalized smart experience in home, travel, office, audio-visual entertainment, sports and health and other scenes, bringing people a more convenient, intelligent, comfortable and safe life.