INTELLIGENT COMPUTING INDUSTRY APPLICATION SOLUTIONS

HEALTHCARE AND LIFE SCIENCE

Al Heterogeneous Computing / Image Processing Ultra-low Power Consumption / Wireless Connection





Driving Digital Change in the Healthcare Industry

Yunti onsmart medical solution is based on an excellent SoC chip platform and AI computing power, and integrates technologies such as machine vision, image processing, AI-assisted analysis, and edge computing to realize intelligent medical capabilities, improve medical efficiency, and optimize patient experience services.





Smart hospitals cover three major areas: "smart medical care" for medical staff, "smart services" for patients, and "smart management" for hospital management.

Yuntion relies on its excellent intelligent computing products and integrates new technologies such as cloud computing, IoT, AI, cognitive technology and 5G to help the construction of smart hospitals.

Technical Features





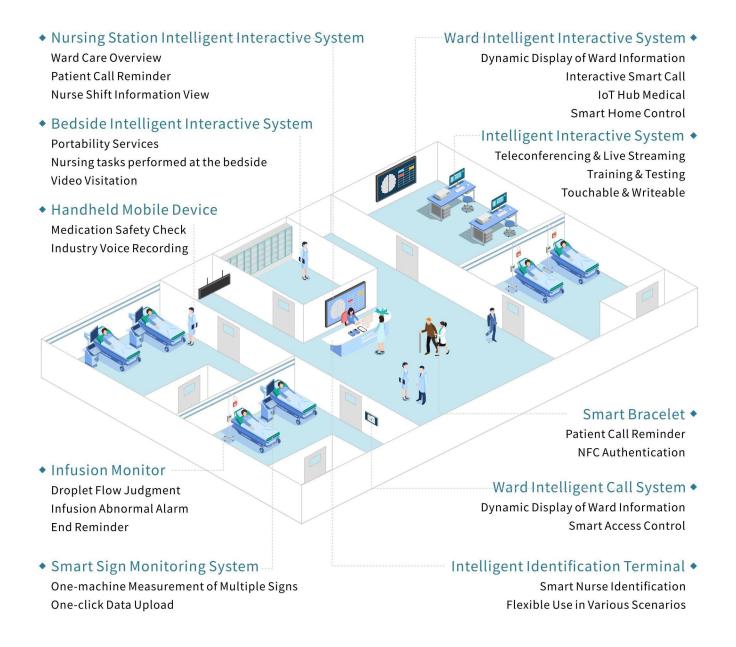


High-performance ISP Image Processing



Smart Ward

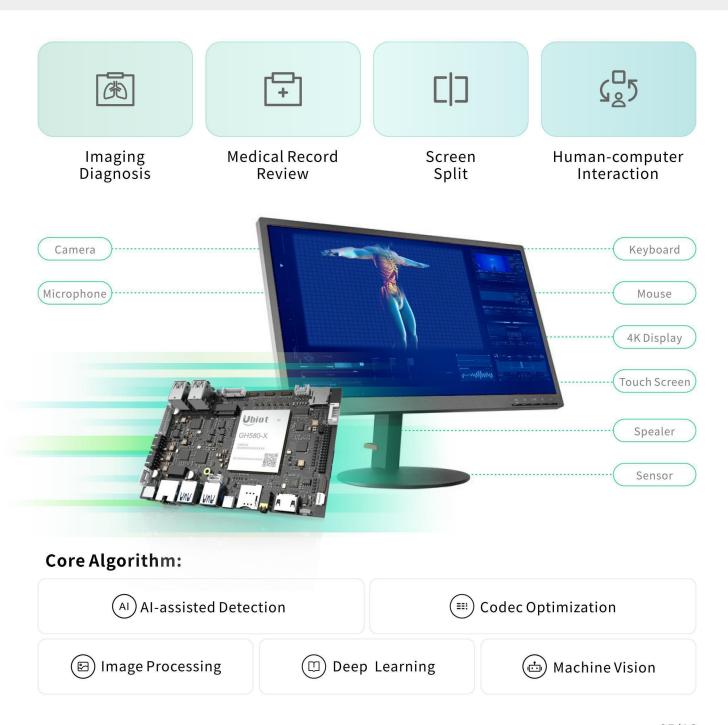
Yuntion intelligent computing products and solution is based on SoC heterogeneous processors and GPGPU development processors to realize efficient collection and use of medical data, timely reminder of early warning information, real-time risk monitoring and inquiry at any time, and help transform intelligent wards.



Intelligent Medical Display Terminal

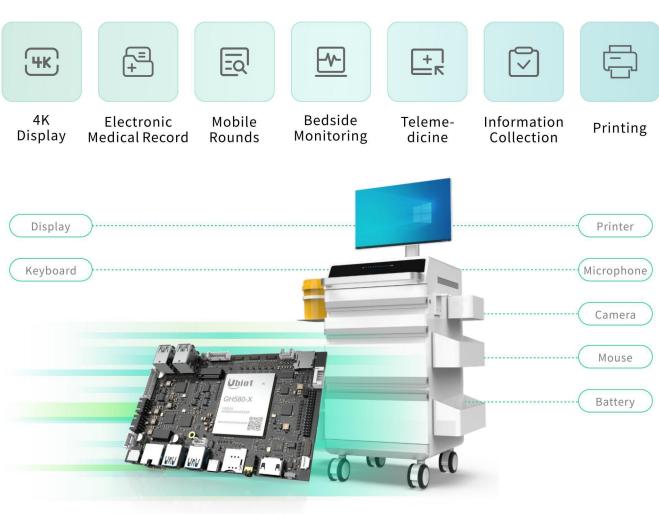
The image quality presented by the medical display terminal is an important basis for doctors to diagnose, so higher resolution, brightness and contrast are required.

Yuntion flagship intelligent computing products support 8K displays, achieve high resolution, wide color gamut, high brightness contrast and low latency, and are perfectly suitable for intelligent medical display terminals.



Mobile Healthcare Workstation

Yuntion mobile medical workstation is based on the intelligent computing mainboard SD5580, which provides high AI computing power, advanced graphics processing functions, and high-speed wireless connection functions. It is an ideal choice for building an excellent mobile medical workstation.



Product Advantages:

Wi-Fi 6 Ultra-fast Wireless Connection

24-channels FHD Video Decoding Capability

Android/Ubuntu Free Choice of Multiple Systems Equipped with Qualcomm SNPE inference engine Support model conversion and deployment include Caffe/PyTorch/TensorFlow

Telemedicine

Telemedicine consultation generates a large amount of real-time conference audio and video data and medical image data, which puts forward higher requirements for image processing capability, network bandwidth, and data processing. With Yuntion intelligent edge and cloud server, 4K/8K remote high-definition consultation and high-speed transmission and sharing of medical images can be realized.





 $\label{precise} \mbox{Precise imaging is the premise of precise diagnosis and treatment.}$

Medical imaging equipment equipped with Yuntion intelligent computing products and solutions, with the excellent coding capabilities provided by high-performance SOC chips, fully meet doctors' high-level requirements for ultra-high-definition images, low-latency real-time image transmission, and image processing. It can also assist doctors in medical image processing, identification and analysis.

Technical Features

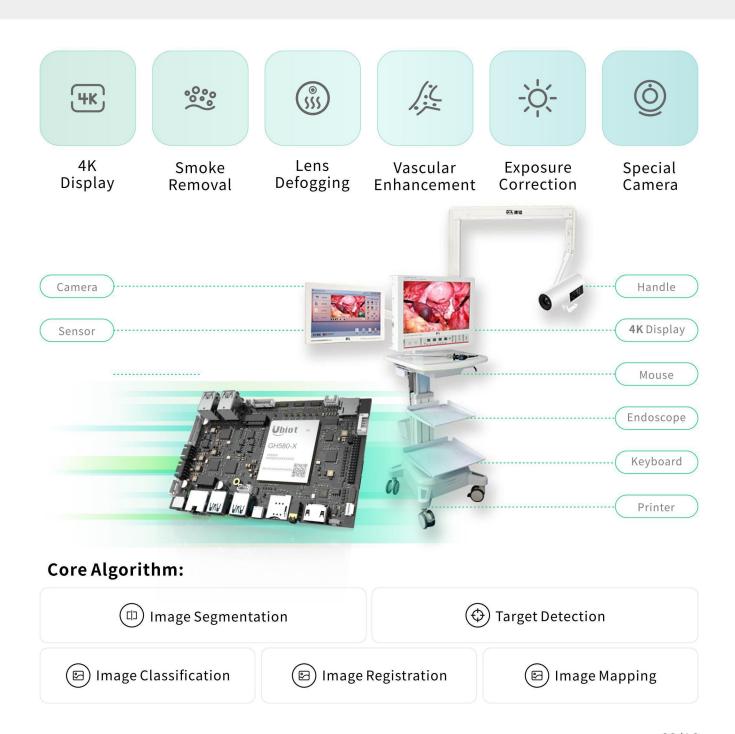




4K HD Endoscope Vision System

The 4K high-definition endoscopic vision system has a 4K-level resolution, providing operators with aclearer surgical field of vision and improving the precision of surgery.

Yunti on flagship intelligent computing mainboard SD5580A adopts Qualcomm QCS8250 processor, has 15TOPS super AI heterogeneous computing power, and supports up to 24 channels of FHD video decodingcapability at the same time. It is an ideal choice for cutting-edge endoscopic vision systems.





Yuntionintelligent computing products have powerful AI computing power, outstanding video and graphics processing capabilities, and advanced connectivity capabilities, meeting the strict demands of the medical instrument industry for intelligence and high precision.

Technical Features





Handheld POCT Auxiliary Diagnostic Equipment

POCT blood glucose meter is a common instrument for blood glucose monitoring.

The blood glucose meter with built-in Yuntion intelligent network connection module can monitor blood glucose levels in real time 24 hours a day, upload data to the cloud or send it to other devices such as mobile phones, and can also integrate user-friendly functions such as high-definition panels and automatic voice playback.



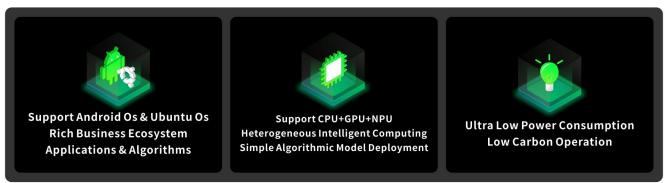


As a modern discipline that requires a large amount of experimental data research and deduction, life science research is inseparable from the assistance of high-performance computing.

Yuntionintelligent edge and cloud servers provide high computing power, high value, and low power consumption infrastructure solutions for life science research, bringing new possibilities for life science research.

Technical Features





AI Data Analysis

Al technology is fundamentally changing the global healthcare system.

Yuntionintelligent edge server Astro500 is specially designed for digital transformation. It can build 32-96 high-performance heterogeneous ARM SoC chips with a computing power of up to 1440 TOPS, which can easily meet the needs of high computing power in the field of life sciences.



Product Advantages:



Remove "Noise" from Data

Help people make sense of vast amounts of clinical data, medical literature, and population and usage data to inform decision-making.



Provide Contextual Relevance

Quickly interpret hundreds of millions of data points, including text and image data, to help heal-thcare providers discover contextually relevant information about each patient.



Reduce Errors Related to Personnel Fatigue

Al algorithms are not fatigued, distracted or affected by emotions. They can process massive amounts of data with incredible speed and precision.

Product Selection

Intelligent Network Module

GH580 Flagship Al Intelligent Module

Qualcomm QCS8250 CPU: 1+3+4 Kyro 2.84GHz/2.4GHz/1.8GHz NPU: INT8 15TOPS Camera: 64MP/24MP+24MP+24MP+2MP+2MP WIFI6/BT5.2





GH360 4G Intelligent Module

Qualcomm SDM660 CPU: 4+4 Kyro 2.2GHz/1.8GHz Camera: 24MP/16MP+16MP Modem: LTE Cat6 Size:43*44*2.6mm



GH331 4G Intelligent Module

Qualcomm SDM450 CPU: 8*A53 1.8GHz Camera: 24MP/13MP+13MP Modem: LTE Cat6 Size: 35*40*2.6mm



GH331C 4G Intelligent Module

Qualcomm SM6115 CPU: 4+4 Kyro 2.0GHz/1.8GHz Camera: 25MP/16MP+16MP Modem: LTE Cat6 WIFI: 2.4GHz/5.8GHz BT5.0



GH330 4G Intelligent Module

Qualcomm SDM450 CPU: 8*A53 1.8GHz Camera: 24MP/13MP+13MP Modem: LTE Cat6 Size: 43*44*2.6mm



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



GH300 4G Intelligent Module

Qualcomm MSM8909 CPU: 4*A7 1.1GHz Camera: 8MP Modem: LTE Cat4 Size: 39mm*29mm*2.6mm



GH201 4G Cat4 Full Netcom Module

Qualcomm MDM9x07 CPU: Cortex-A7 1.3GHz Package: LGA+LCC Size: 32mm*29mm*2.6mm



GH160 4G Cat1 Module

ASR1603,RTOS Package: LGA+LCC Size:23mm*23mm*2.6mm





Intelligent Computing Mainboard

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



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



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



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



SD5400

RK High-end General SoC Intelligent
Computing Platform
CPU: RK3588,4*A764*A552.4GHz
Support Multi-screen Display, 8K Video Display & 8K Codec
Support WIFIS/BT5.0 Wireless Connection
Support USB/LAN/RS232/RS485
/PCIe/SPI Interface Protocols



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



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



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



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



Astro500Pro

Support 4 GPU Inference Cards
Meet the needs of multi-scenario reasoning;
Max. AI Computing Power Over2000TOPS 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.