### INTELLIGENT COMPUTING INDUSTRY APPLICATION SOLUTIONS

# **SMART CITY**

Al Heterogeneous Computing / Image Processing Biometrics / Cloud-Edge Collaboration





## **Edge Computing Helps Build Smart Cities**

Smart cities use a new generation of information technology to make intelligent responses to various needs, promoting the city to gradually move towards digitization and intelligence.

Yunti onsmart city solution is based on intelligent computing products. with the help of IoT, AI, intelligent computing, machine vision and other technologies, It realizes the intelligent management and operation of the city, making the city safer, more livable and more sustainable.





Smart buildings and engineering are the cornerstone of smart cities.

Yuntion is committed to providing an overall solution of edge computing intelligent hardware products that fit the scene for smart buildings and engineering construction to realize all-round real-time monitoring of personnel, machinery, materials and environment, promoting the digital and intelligent upgrading of construction projects.

### **Technical Features**





## **Construction Safety Monitoring**

The construction site has diverse personnel, frequent flow, complex environment, and many hidden safety hazards of machinery and equipment, which makes management difficult and costly.

Yuntion takes the intelligent edge station as the core, integrates intelligent algorithms deployed at the edge, collects multi-dimensional sensing data through cameras, sensors and other equipment for real-time analysis, calculation and decision-making, so as to build an intelligent monitoring and prevention system and escort the safety of construction sites.

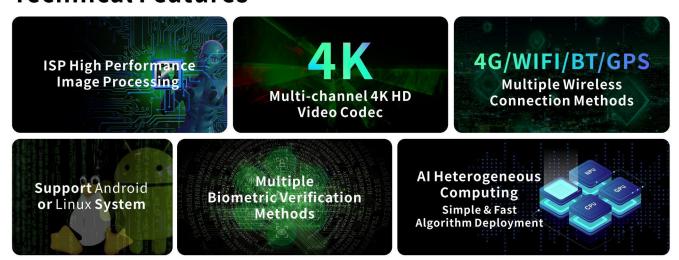




With the help of Yuntion intelligent computing products and solutions, by accessing and managing multiple types of front-end equipment and sensors, it is possible to collect real-time operating data of people, objects, daily office, security, monitoring, etc.

Yuntion solution helps build cloud-side business collaboration and remote algorithm and application deployment capabilities, and realize digital management of buildings such as smart property, smart traffic, smart parking, smart operation, and smart security.

## **Technical Features**





# **Intelligent Video Intercom Terminal**

The intelligent video intercom terminal is a multi-purpose face recognition all-in-one machine, which can realize the functions of access control and cloud intercom.

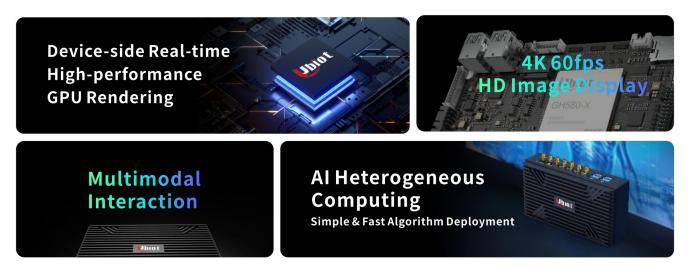
Yuntionintelligent video intercom terminal solution is based on SOC chip platform with excellent performance, with 8K 30P H.265 encoding, 15T super AI computing power, hybrid biometric technology and computer vision technology, realizing face recognition, cloud intercom, Remote door opening, visitor management and other functions.





Relying on technologies such as intelligent computing, machine vision, IoT, and digital twins, the smart campus deeply integrates education, teaching, scientific research, and management with campusresources and application systems to build a safe, stable, healthy, warm and harmonious smart campus.

### **Technical Features**





# **Al Sports Motion Detection**

Al sports motion detection is based on the Yuntion intelligent edge station. By analyzing the human joint model and motion trajectory, it can detect whether the motion is qualified in real time, and give real-time feedback.

It is a more intelligent, efficient and convenient evaluation and teaching method.





In the construction of a smart city, public facilities are an indispensable part, which directly reflects the intelligence level of a city.

With Yuntionsmart computing products and solutions to empower relevant public facilities, it can realize perception networking, building a digital and intelligent management platform, promoting data integration and sharing, and improving urban operation management and emergency response capabilities.

### **Technical Features**





# **Bright Kitchen**

Bright kitchen refers to a form in which catering service providers use transparent glass, video, etc. to show the public the process of catering services.

Yunti onbright kitchen solution uses intelligent computing board as a platform and relies on machine vision and edge computing to realize real-time visualization, intelligent monitoringand management of the entire process of behavioral norms and environmental sanitation involved in the kitchen of catering units.



## **Product Selection**

## **Intelligent Network Module**

#### **GH580**

CPU: Qualcomm QCS8250

Operating System: Android 10/Ubuntu 18.04

Network: WIFI6, 2.4G&5GHz,BT5.1 LE, M.2 for 5G/4G

Display Interface: 2 x 4-lane MIPI (2560×1600) @60HZ Dual screen
4k@60fp over DP/Type-C;

#### **GH360**

CPU: QualcommSDM660
Operating System: Android 9.0
Network: 4G Cat6/3G/2G WIFI 2.4GHz&5GHz/BT5.0 LE
Display Interface: 2560 × 1600 @60fps primary display
+ 4k @30fps over DP 24 bpp RGB; Dual MIPI DSI

### **Smart Mainboard**

#### SD5580

CPU: Qualcomm QCS8250

Operating System: Android 10/Ubuntu 18.04 Network: Wi-Fi 6, 2.4G&5GHz, BT5.1LE M.2 for 5G/4G Display Interface: 2 x HDMI 4K@60HZ, 1 x HDMI 4K@60HZ,

1 x HDMI 4K@30HZ, 1 x LVDS 1080p, 4 x MIPI CSI

### **SD5400**

CPU: Rockchip Rk3588

Operating System: Android12/Ubuntu18.04 Network: Wi-Fi 5, 2.4G&5GHz, BT5.0LE M.2 for 5G/4G Display Interface: 2 x HDMI2.0, 1 x LVDS1\*eDP, 1 x MIPI4-lane

### **Intelligent Edge Station**

### Astro200Pro

CPU:Snapdragon865 Quad-core A77+Quad-core A55 Computing: 75 TOPS

Operating System: Android/Linux

Wireless: Wi-Fi 6

Video Encoding: H.264/H.265:3840\*2160@120fps

or 7640\*4230@30fps

### Astro200

CPU:Snapdragon865 Quad-core A77+Quad-core A55
Computing: 15 TOPS;

Operating System: Android/Linux; Wireless: Wi-Fi 6 Video Encoding: H.264/H.265:3840\*2160 @120fps or 7640\*4230@30fps



#### Astro200Lite

CPU:RK3588 Quad-core A76+Quad-core A55 Computing: 6TOPS

Operating System: Android/Linux

Wireless: Wi-Fi 5

Video Encoding: H.264/H.265:3840\*2160@120fps

or 7640\*4230@30fps

## **Intelligent Edge Server**

### Astro500

CPU: Qualcomm 865 Computing: 1440TOPS Operating System: Android / Linux Wireless: Wi-Fi 6

Video Encoding: H.264/H.265:3840\*2160@120fps

or 7640\*4230@30fps





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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.