INTELLIGENT COMPUTING INDUSTRY APPLICATION SOLUTIONS

CONSUMER INTERNET INDUSTRY

Device-side Rendering / AI Heterogeneous Computing Power Wireless Connection / Multi-modal Interaction





Defining the Next Generation of Consumer Internet

The development of technologies such as 5G, AI, and edge computing has driven the explosive growth of the consumer Internet industry.

From wearable devices, smart homes, shared bicycles to smart conference tablets, the realization of functions all rely on the fast and intelligent tools and infrastructure provided by Ubiot intelligent computing solutions.

High-speed, low-latency 5G and Wi-Fi connections, high-performance, energy-efficient processing, image processing and cloud-based AI on the terminal side will help achieve a more immersive and interactive experience.

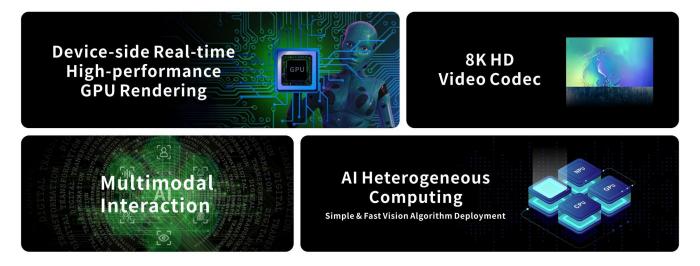




Streaming media is loved by more and more consumers because of its ultra-low latency, instant and uninterrupted transmission, so the demand for newer and faster technologies has never been higher from the way it is made to encoding, rendering and delivery.

Yunti on provides streaming media customers with intelligent computing products and solutions to meet the stringent requirements for computing power, audio-visual experience, and picture quality.

Technical Features



Solution Highlights



SMART FITNESS MIRROR

The smart fitness mirror is based on the Yuntion intelligent computing board, and relies on the deep combination of algorithms, sensors, cameras and other hardware to track and capture human motion trajectories.

It realizes stable recognition, analysis and correction of human motion posture, and also realizes the functions of course update, live broadcast of activities, and sports social functions.



SMART SPEAKER

Smart speaker has become one of the most popular smart hardware due to their natural human-computer interaction mode and rich functions.

The Yuntion smart speaker solution adopts a highly integrated SoC architecture, is equipped with Qualcomm artificial intelligence engine, and integrates software technologies such as far-field voice and noise cancellation. Excellent performance helps create high-quality audio quality and intelligent user experience.





Shared bicycles open up the "last mile" of travel, shared charging devices free people from "battery anxiety", and shared office reduces office costs... The sharing economy has penetrated into people's daily lives.

The shared terminal is transformed into an intelligent interconnected device by carrying Yuntion intelligent computing products, and realizes various functions such as communication, positioning, and unlocking.

Technical Features



Solution Highlights



SHARING BIKE

The wireless communication module is the core of the sharing bicycle network. Through the built-in Ubiot intelligent network connection module in the intelligent lock, functions such as intelligent unlocking, real-time positioning, trajectory tracking, and status monitoring are realized. Through real-time matching of precise positioning capability and electronic fence technology, standardized parking management of vehicles is carried out.

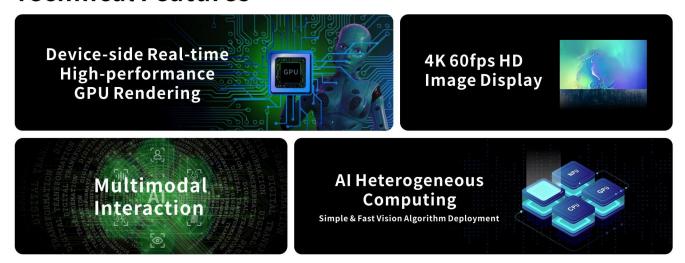


Video Conferencing

New working methods such as telecommuting and mobile working have accelerated development under the ca talysis of the globalized epidemic. This has spawned the demand for new business conference terminals such as smart large-screen conference tablets and smart video cameras.

Yuntion intelligent computing products and solutions are based on flagship SoC chips, combined with computer vision and artificial intelligence algorithms to create immersive and interactive conferences environment. It brings a superior experience of clear and smooth picture, full color and stable operation, and supports rich online collaborative office functions to meet the needs of high-end conferences.

Technical Features



Solution Highlights



SMART CONFERENCE TABLET

The intelligent conference tablet integrates computer, projector, electronic whiteboard, TV, octopus, etc., providing a new intelligent interactive experience.

Yuntionsmart conference Tablet solution is based on Yuntion high-end smart industrial mainboard SD5580, using flagship SoC chips. With its AI computing power of up to 15 TOPS, excellent image processing performance and rich interfaces, it can help customers develop terminal products quickly



SMART VIDEO CAMERA

Smart video cameras bring a new experience to meeting scenarios.

The intelligent video camera equipped with Yuntion intelligent computing products realizes the "close-up tracking" function, supports multi-fold zoom, and 4K HD display, allowing participants to be immersed in the scene, and the conference communication is more comfortable and smooth.





Core Algorithm



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, BT5.1 LE 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.