

INTELLIGENT COMPUTING INDUSTRY APPLICATION SOLUTIONS

MEDIA AND ENTERTAINMENT INDUSTRY

AI Heterogeneous Computing/Multimodal Interaction
High Performance Rendering/Immersive Experience



AI Drives Change in Media & Entertainment Industry

Yuntion is committed to applying intelligent computing to the media and entertainment industry to meet the growing demand for high-quality content from audiences.

Based on high-performance intelligent products and solutions, with efficient edge computing capabilities and audio and video processing capabilities, Yuntion meets the needs of the media and entertainment industry in agile connectivity. Key requirements in real-time business, data optimization, etc., to help enterprises respond to rapidly changing market challenges.



COMMERCIAL DISPLAY



Terminals in high-end consumption scenarios more emphasis on screen display clarity, experience fluency and interactive experience.

Yunti on high-end commercial display terminal solution provides customers with a highly integrated one-stop platform that integrates encoding and decoding capabilities and GPU high-performance video rendering and VPU video processing and optimization capabilities.

With high AI computing power, high image processing capability, high-performance video rendering, high interaction capability, high-speed connection, and high interest, it is welcomed by more and more clients.

Technical Features

Device-side Real-time
High-performance
GPU Rendering



8K

HD Video Codec

Multimodal
Interaction

Comprehensive Score
Up To

80万

AI Heterogeneous
Computing

Simple & Fast Vision Algorithm Deployment



Solution Highlights



Amazing Visual
Impact



Immersive
Experience



Big Data
Analysis



Personalized
Recommendation



Creative
Marketing

Application

HIGH-END COMMERCIAL DISPLAY TERMINAL

With the help of smart commercial display devices equipped with Ubiot's high-end commercial display solutions, merchants can not only realize the High-definition pictures or high-precision video content display, and the latest shopping guides, products, activities can also be released in real time.

Commercial display applications based on big data and artificial intelligence such as human-computer interaction, speech recognition, face recognition, and motion capture are also available for consumer, which brings a more interesting and convenient consumption experience.



AI Digital Human

Before the Metaverse arrives, the virtual human arrives first. In industries such as finance, public transportation, government affairs, operators, tourism, and new retail, AI digital virtual humans can provide functions such as interactive communication, business handling, problem consultation, service tour, etc.

Yuntion AI digital virtual human solution is based on Qualcomm's flagship chip QCS8250 processor, providing up to 15 TOPS computing power support. It also provides high-speed, low-latency 5G and Wi-Fi connection performance and rich spatial audio, graphics processing and imaging functions, providing ideal platform for the development of digital virtual humans.

Technical Features

Device-side Real-time
High-performance
GPU Rendering



4K 60fps
HD Image
Display



Multimodal
Interaction

AI Heterogeneous
Computing

Simple & Fast Vision Algorithm Deployment



Solution Highlights



Realistic image, support motion
detection and recognition



Multiple forms of access



Real-time communication with
short delay and quick answer
Restore "face-to-face" real-time
conversation experience

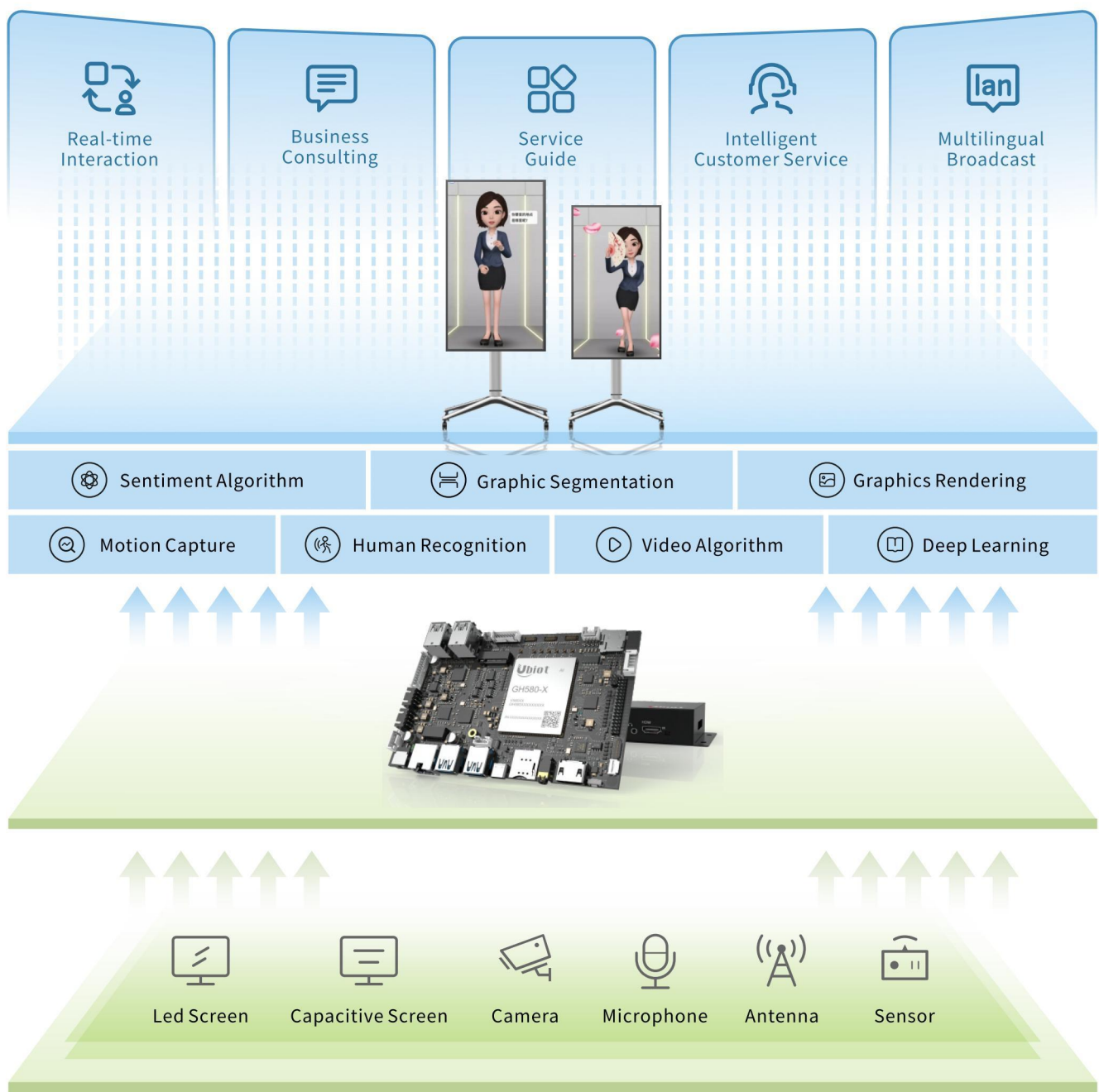


Provide AI virtual human full-link
AI technology, image service, etc.
Easy to access and use

Application

AI Digital Human

AI digital human interaction all-in-one solution is an intelligent terminal software and hardware solution integrated with Uboit flagship computing mainboard SD5580, third-party AI virtual human SDK and various sensor peripherals. It realizes "face-to-face" real-time interaction between virtual people and real people through AI core technologies such as speech recognition, speech synthesis, natural language understanding, image processing, lip driving, and virtual human synthesis.



LIVE BROADCAST



As a new format and new model in the commercial field, domestic live-streaming e-commerce is showing a rapid development trend. The market and practitioner is huge, but the existing live broadcast equipment is expensive and cumbersome and cannot meet today's diversified needs.

Yunti on launches a smart live broadcast equipment solution with higher computing power and higher performance, integrating the most advanced 5G communication and AI intelligent technology, enabling merchants/talents to achieve more efficient and high-quality live events.

Technical Features

Device-side Real-time
High-performance
GPU Rendering



4K 60fps
HD Image
Display



Multi-channel Ultra HD
Camera Access Capability

AI Heterogeneous
Computing

Simple & Fast Vision Algorithm Deployment



Solution Highlights



Technology Enhancement
(Green Screen, Patch, etc.)



Equipment
Enhancement
(HD Video Screen, etc.)



Short Video Enhancement
(Commodity Video
Modeling, etc.)



AR Fusion
(Virtual Anchor, etc.)

Application

INTELLIGENT LIVE BROADCAST EQUIPMENT

The intelligent live broadcast equipment is a special equipment for live broadcast that integrates audio and video collection, intelligent processing, and network transmission, which can be used in E-commerce, virtual digital human, outdoor, knowledge explanation and other live broadcast scenarios

Yuntion SD5580A high-performance computing mainboard is based on Qualcomm QCS8250 processor, with over 15TOPs computing power and advanced AI and graphics image processing performance. It can support up to 7 cameras concurrently, and the encoding capability can reach up to 4K, 120 frames/second. It helps the all-in-one live broadcast equipment to achieve 7*24 hours of uninterrupted operation, efficiently and quickly analyze and process images and video in real-time rendering, and realize the interconnection of multiple devices.



GAME



As a bridge connecting the real world and the virtual world, XR equipment changes the way of interaction between entertainment and industrial applications with unique product form and realistic immersive experience. Yuntion is committed to providing excellent intelligent computing products and solutions for developers in the game industry, and has a wealth of software and hardware integration technologies to help customers provide immersive gaming experience.

Technical Features

Device-side Real-time
High-performance
GPU Rendering



Support Ultra-high
Frame Rate
Image Output



Gbps

Wireless Transfer Rate



Low Power Consumption
Low Carbon Operation

AI Heterogeneous
Computing

Simple & Fast Vision Algorithm Deployment*



Solution Highlights

Real-time Light
Trace Rendering



360° Space Low
Latency Audio



XR Immersive
Experience



Ultra-high Touch
Adoption Rate



Ultra-high Screen
Refresh Rate



Cloud Gaming
Experience



Application

VR Device

Yunti onVR device solution is based on Snapdragon XR2 chip, with 15TOPS super AI heterogeneous computing power,While multitasking, it can support more perception algorithms, bringing a more immersive experience to end users; Integrated computer vision dedicated processor - Visual Analysis Engine (EVA),Achieves low latency and reduces overall power consumption; Support top-level Wi-Fi 6 ultra-high-speed wireless performance, providing users with Provides a truly wireless VR experience and supports faster download speeds;Support up to 8K@60fps and 4K video decoding at @120fps brings users the visual enjoyment of 4K HD image quality.



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: Qualcomm SDM660
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: Android 12/Ubuntu 18.04
Network: Wi-Fi 5, 2.4G&5GHz, BT5.0 LE M.2 for 5G/4G
Display Interface: 2 x HDMI 2.0, 1 x LVDS 1* eDP, 1 x MIPI 4-lane

Intelligent Edge Station

Astro200Pro



CPU: Snapdragon 865 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: Snapdragon 865 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



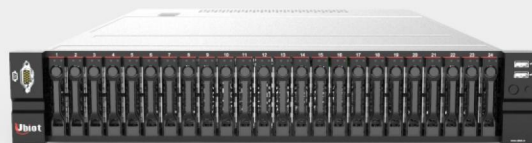
CPU: RK3588 Quad-core A76 + Quad-core A55
Computing: 6 TOPS
Operating System: Android/Linux
Wireless: Wi-Fi 5
Video Encoding: H.264/H.265: 3840*2160@120fps
or 7640*4230@30fps



Intelligent Edge Server

Astro500

CPU: Qualcomm 865
Computing: 1440 TOPS
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.