Connecting things
Hongdian

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H3960

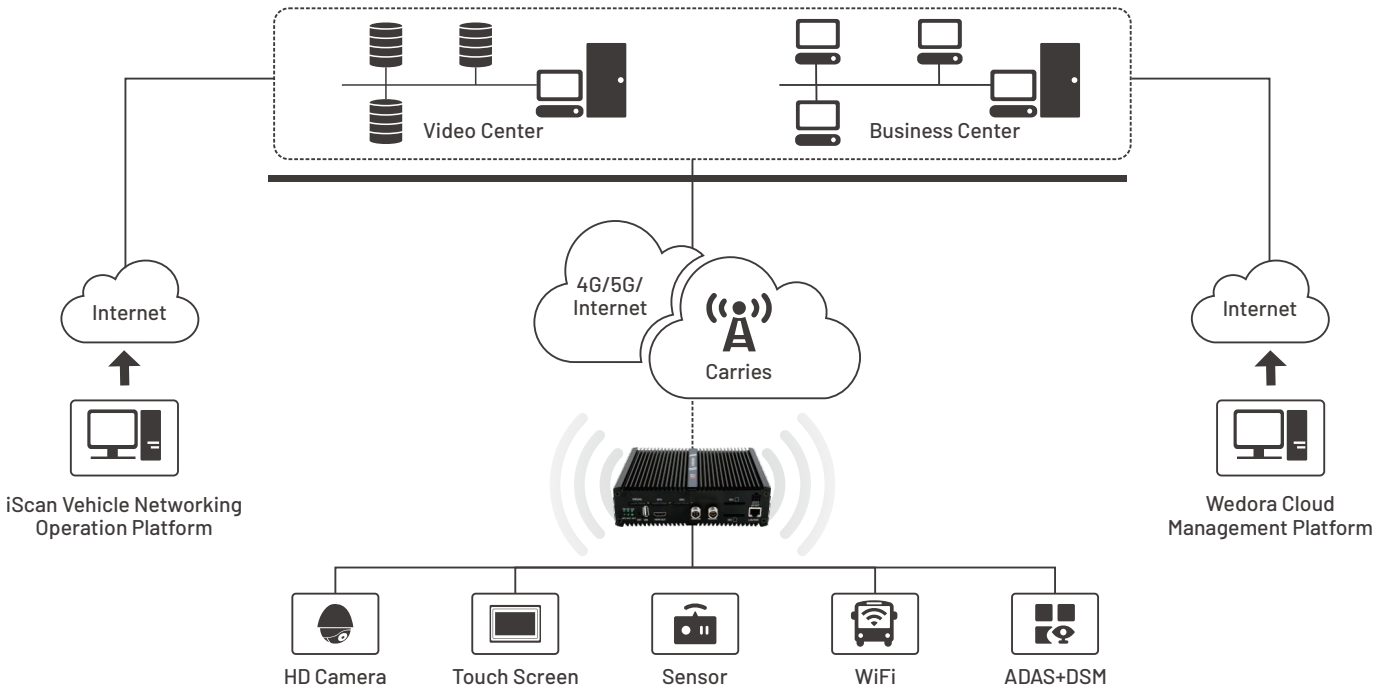
Intelligent Multi-mode 5G Vehicle Gateway

Video Surveillance | Wi-Fi | 5GLAN dual transmitting and receiving | Ministry Standard Protocols | AI

Highlights

- Support four channels of 1080P HD video collection
- Support 2×RS485, 2×RS232, AHD, HDMI
- Support mainstream communication protocols such as Modbus TCP/RTU, MQTT,etc.
- Support ministry standard protocols such as 808 and 1076
- Meet the requirements of various Wi-Fi applications
- Widely used in special vehicle audio scene, video scene and other scenes

Topology Diagram



Application Scenario

5G Smart Ambulance

5G Smart Unmanned Vehicle

5G Smart Logistics Vehicle

5G Intelligent Unmanned Mining Truck

Features

Smart Dialing

- Support 5G Sub6, 5G LAN, RedCap, URLLC
- Support 5G multi-DNN dialing and network slicing
- Support dual-mode, 5G dual transmitting and receiving, hot backup

Audio and Video

- Support four channels of 1080p video collection
- Support 1 channel DSM camera
- Support HDMI real-time local video and image output
- Support two-way digital voice intercom
- Support HDMI video input and video decoding (customized)

Vehicle Service

- Support double SD card real-time video storage, support hard disk storage(customized)
- Support DSM driving behavior detection, support speeding, fatigue and other safe driving alarm
- Supports sub-meter high precision positioning, support single and dual frequency high-precision positioning (supporting high-precision module)

Protocol Support

- Support Modbus TCP/RTU, MQTT and other mainstream communication protocols
- Support ministry standard protocols such as 808 and 1076

Remote & Penetration Management

- Support Hongdian Wedora cloud platform and iScan platform remote management
- Support NAT firewall
- Support SSH secure login
- Support security filtering for IP addresses, MAC addresses, domain names, and ports

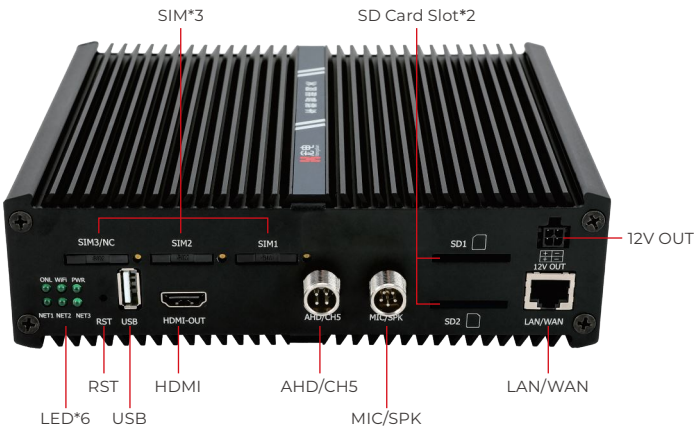
Wi-Fi Capability

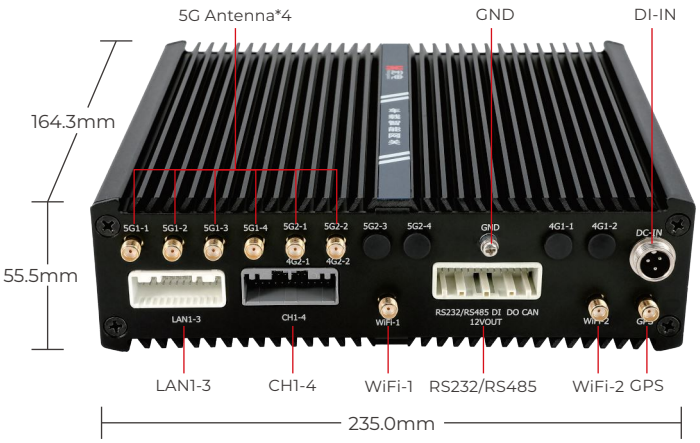
- Connect phone to the device through Wi-Fi to get traffic-free internet access, download games, apps, and movies
- Support 4G-Fi offline cloud mobile terminal deployed in the car, providing traffic-free internet access and interactive functions
- Support user online behavior data analysis through Wi-Fi to achieve precision marketing

Specification

CPU	High-performance multi-core 64-bit ARM processor
Operating system	Ubuntu/debian, support docker
Interface	
Antenna	4×5G antenna interfaces (compatible with 4G, SMK-K connectors) 1×BD/GPS antenna interface (SMK-K connectors)
SIM	2×SIM card slots (1.8V/3.0V)
Ethernet	24PIN, 3×Gigabit Ethernet interfaces, 24PIN, 4×with powered 100 Mbit Ethernet interfaces (12V@0.5A)
Audio and video	1×AHD, 1×MIC/SPK, 1×HDMI output
28 PIN	2×RS485: 300~115200bps (optional) 2×RS232: 300~115200bps (optional) 6×DIDO: 4×DI, 2×DO, 1×CAN: 250Kbps 2×12VDC: 12V@0.5A
External Storage	2×SD card interface
Other	1×USB (hard disk or Wi-Fi extendable), 1×HDMI (customized)
Power Supply	
Operating voltage	Standard 12V/24V power supply for vehicle (8~36V wide voltage input is supported. If the voltage is lower than 12V, whether the device is available needs to be checked)
Working Power Consumption	
Operating voltage	Idle state: about 0.4A@24V DC (no data transceiver) Typical values: about 1.5A@24V D (Cnetworked transceiver data) Maximum power consumption: about 4.2mA@24V DC
Other	
Weight	About 1200g (Dual mode 5G)
Size	235.0×164.3×55.5mm (without power supply, antenna interface and bracket)
Operating temperature	-30°C~+75°C
Storage temperature	-40°C~+85°C
Relative humidity	< 95% (no condensation)

Appearance





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