

H3960

5G Vehicle Gateway



Overview

H3960 5G Vehicle Gateway is an AI intelligent gateway based on high-performance multi-core 64-bit ARM processor. It realizes real-time acquisition and transmission of multi-channel HD video through 5G multi-module load balancing and bandwidth binding, and supports DSM camera and DSM fatigue driving analysis. It can also be combined with the iScan platform to provide users with a total turnkey vehicle solution.

Highlights



Supports dual 5G FRER (Frame Replication and Elimination for Reliability), as well as dual-module hot backup



Support 4 channels of 1080P HD video collection

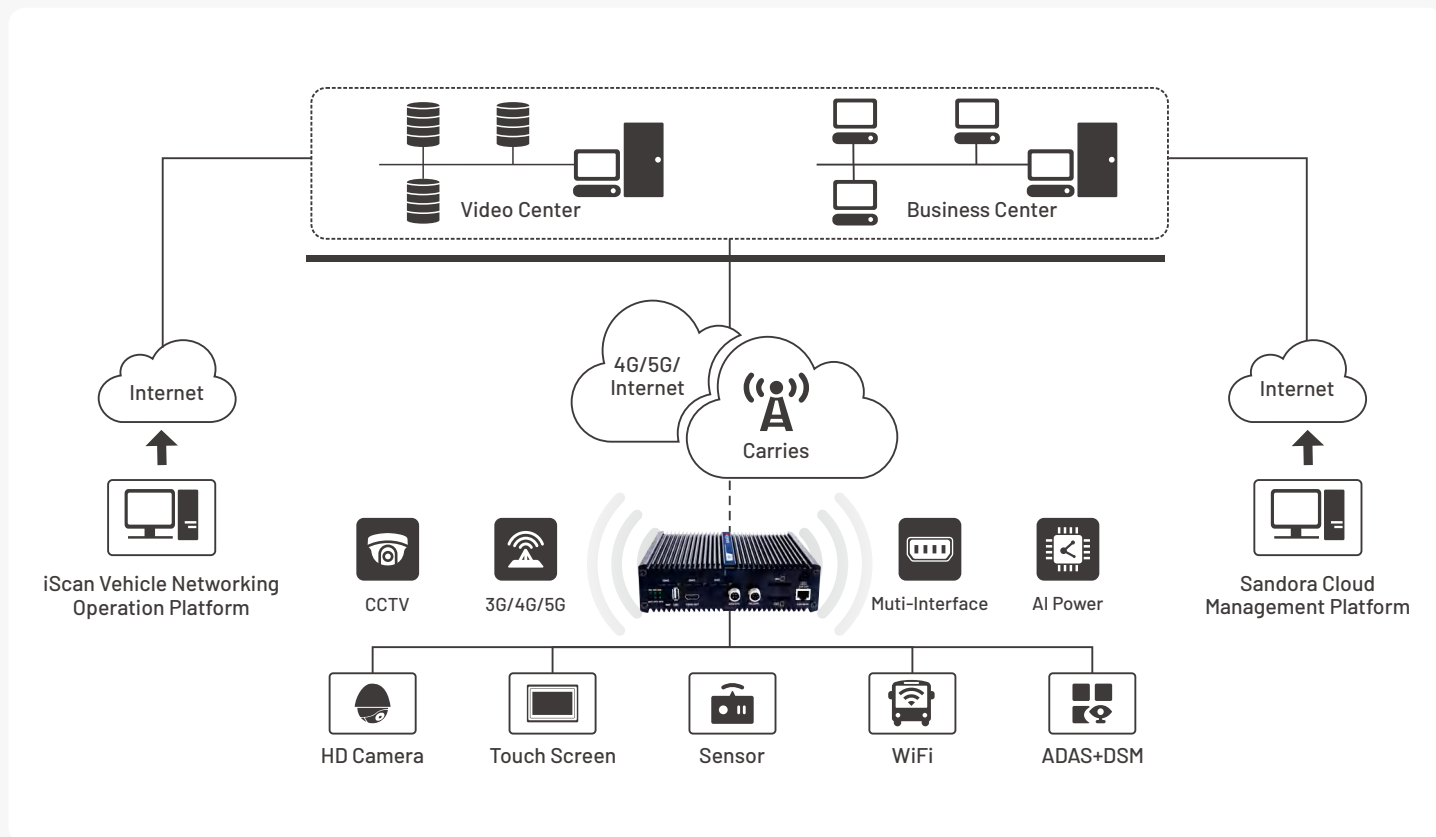


Support mainstream communication protocols such as Modbus TCP/RTU, MQTT, etc.



Support DSM driving behavior detection, support safety driving alarms

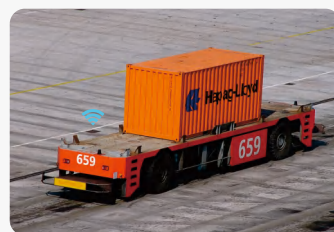
Topology Diagram



5G Smart Ambulance



5G Smart Unmanned Vehicle



5G Smart Logistics Vehicle



5G Intelligent Unmanned Mining Truck

Appearance



Specification

Hardware			
CPU	Quad core ARM Cortex-A7 @1.5GHz	NPU	2Tops
Memory	2GB	Built-in storage	16GB
Cellular Interface			
Modem	1/2×5G NR(SA/NSA) or 1×LTE+1/2×5G NR(SA/NSA)	SIM	1×Mini SIM (2FF)
Number of Antennas	4	Connector	SMA-K
Wireless Interface			
Standards	802.11b/g/n/ac, AP or station modes		
Frequency Bands	2.4 GHz	Speed	150Mbps
Security	WEP, WPA, WPA2	Encryption	64/128 AES, TKIP
Antennas	1	Connector	SMA-K
GNSS Interface			
Number of Antennas	1	Connector	SMA-K
Peripheral Interface			
Ethernet	1 × LAN 10/100Mbps	Serial	2 × RS-232 + 1 × RS-485 serial port
TF Card	2 × SD Card	USB	1 × USB2.0
IO	2 × DO, 7 × DI	CAN	1
Audio	Audio IN/OU		
Software			
Video Code	H.265/H.264/VP9 4K@60fpsHD video decoding, H.265/H.264/VP9 1080P@100fpsHD videoencoding		
Image processing	BMP, JPG, PNG, GIF		
AI algorithm	Support DSM driving behavior detection, support safety driving alarms such as speeding and fatigue		
Network	Muit-DNN, APN, VPDN, QoS, 5G LAN		
Power Supply and Consumption			
Connector	4 pin socket	Voltage Input	DC 12~36V
Power Consumption	Idle: 400mA@12V DC, Data transceiving: 1.5A@12V DC		
Others			
Reset Button	Yes	Hardware Watchdog	Yes
LED Indicators	6 indicators for PWR, WiFi, 4G, NET1, NET2, NET3, ONL		
Physical Characteristics			
Ingress Protection	IP30	Housing & Weight	Metal, about 1200g (Dual 5G Module)
Dimension	235×164.3×55.5(mm)	Installations	Wall-mounting
Operating Temperature	-30 ~ +75 °C	Storage Temperature	-40 ~ +80 °C
Relative Humidity	5~95		