

RSU-C320

NA Intelligent Roadside Terminal

HUALI RSU provides real-time and efficient traffic efficiency and safety services



Product introduction

NA RSU-C320 roadside terminal is an intelligent roadside terminal independently developed by iSmartWays for the North American market, mainly for intelligent network connection, intelligent transportation and other fields. The product satisfies the communication requirements of 4G/5G cellular networks in North America. It has the capabilities of perception fusion, vehicle-road coordination, data intelligence, and platform access. It can receive road condition information from traffic signals/edge calculators/cloud platforms and broadcast in real time Provide real-time and efficient traffic efficiency and safety services to passing vehicles, reduce and avoid traffic accidents.

Main function

- Assistance Drive
- Flexible Message update
- Vehicle-Road cooperation
- Intersection monitor

Product application

It is suitable for solution integrators of smart city, smart transportation, smart parking, smart driving, smart expressway, etc. It can be applied to urban intersections, high-speed masts, parking lots, testing grounds, smart parks, etc.

Product features

- Meet the frequency band requirements of 4G operators in North America
- Meets 3GPP R14 standard LTE-V communication, supports PC5 (mode 4) communication
- Supports ordinary multi-mode positioning and meets meter-level positioning accuracy
- Meet North American FIPS-140-2 Level3 certification requirements and IEEE 1609.2 protocol requirements
- Support V2X differential data forwarding, meet RTCM2.X, RTCM3.X format
- Support HDMI display output plug and play
- Support NTP network clock synchronization as a clock source
- Provides strong road awareness
- Support remote debugging and maintenance of equipment
- IP66 super dustproof and waterproof, adapt to harsher working environment

Product Specifications

System parameters	
System	Linux, Built-in multi-core processor
RAM	2GB
ROM	8GB
Cellular	WCDMA/FDD-LTE/TDD-LTE/NR 5G(SA/NSA)
V2X	C-V2X PC 5 mode4(3GPP Rel.14)
GNSS	Support Beidou/GPS/GLONASS/Galileo/QZSS, maximum date update frequency 10Hz
WiFi	2.4GHz, built-in antenna
Ethernet	10/100/1000Mbps*1
SIM card	Micro-SIM, support Hot plug; Compatible with eSIM card design
HSM	Meeting FIPS-140-2 Level3 requirements

Electrical Environmental Characteristics	
Power Supply	IEEE802.3 af/at POE, DC9~36V
Operating temperature	-40°C ~ +85°C
Storage temperature	-40°C ~ +85°C
Electrostatic discharge	IEC61000-4-2(ESD)±8kV(air), ±4kV(contact)
Power consumption	< 12W
Operating humidity	10% ~ 95%(non-condensing)
Physical Characteristics	
Dimension	235*210*62mm
Shell	Gray, Aluminum Alloy
Net weight	1.8KG
Degree of protection	IP66