

OBU-C320

NA Intelligent Vehicle Terminal

Streamlined body design, small body, easy to install



Product introduction

NA OBU-C320 is a 4G intelligent vehicle terminal launched by iSmartWays for the North American market, mainly for the fields of intelligent network connection and intelligent transportation. The product has the capabilities of assisted driving, remote query, vehicle-road coordination, platform access, etc., to meet the needs of users for rapid development and verification of installation and testing. After the vehicle is equipped with this terminal, it can interact with other vehicles, pedestrians, and roadside equipment to provide drivers with real-time traffic information and early warning information, so as to ensure the active safety of driving and provide support for the improvement of travel efficiency and traffic safety.

Main function

- Assistance Drive
- Vehicle status query
- Vehicle-Road cooperation
- Remote vehicle tracking

Product application

It is suitable for solution integrators of smart city, smart transportation, smart parking, smart logistics, smart driving, etc., and can be applied to intelligent networked vehicles such as private cars, buses, transport vehicles and other special vehicles.

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
- Support centimeter-level high-precision positioning, and provide lane-level positioning services
- Meet North American FIPS-140-2 Level3 certification requirements and IEEE 1609.2 protocol requirements
- Supports fast docking of various HMIs, such as various tablets/central control screens/HUD/streaming media rearview mirrors, etc.
- Support HDMI display output plug and play
- Built-in emergency battery to prevent data loss due to accidental power failure
- 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
V2X	C-V2X PC 5 mode4(3GPP Rel.14)
GNSS	Support Beidou/GPS/GLONASS/Galileo/QZSS, centimeter-level positioning, maximum date update frequency 30Hz
WIFI	2.4GHz, support 802.11a/b/g/n/ac
BT	BT 4.2 +EDR
CAN	CAN 2.0B*2
RS232	RS232*1, supports external access to centimeter-level high-precision positioning sensors
Debug serial port	UART*1
Ethernet	1000M*1

HDMI	HDMI*1
HSM	Meet FIPS-140-2 Level3 requirements
Built-in battery	Satisfied that in the case of an accidental power failure of the vehicle battery, it can still normally last for 15 minutes
Electrical Environmental Characteristics	
Operating temperature	-40°C ~ +85°C
Storage temperature	-40°C ~ +85°C
Electrostatic discharge	IEC61000-4-2(ESD)±8kV(air),±4kV(contact)
Power supply	12V, 1A
Operating humidity	10% ~ 95%(non-condensing)
Physical Characteristics	
Dimension	180*180*47mm (with mounting holes)
Shell	Black, Aluminum Alloy
Net weight	1100g
Degree of protection	IP66