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MOCAR-RSU SPECIFICATIONS



Make travel smarter, safer, and more enjoyable.

iSmartWays Technology Inc.



V2X Roadside Unit

Our MOCAR I-MASTER RSU allows for communication between vehicles and roadside infrastructure such as traffic lights, dynamic message signs, and road weather information systems. Deployment of our powerful RSU provides transportation agencies with important dynamic real-time information and the ability to communicate changing traffic conditions to road users.

1. FEATURES

Operates on MOCAR C-V2X protocol application stack, provides vehicle to infrastructure real-time communication.

Supports 2G, 3G, and 4G data services.

GNSS Supports GPS, GLONASS, Galileo, Beidou, QZSS.

V2X Compatible with LTE-V direct communication module, Supports T/CSAE 53-2017.

LTE-V: Supports 3GPP Rel. 14 specs.

Working Frequency Band: 5855~5925Mhz.

Working Frequency Band: 10/20MHz.

Data Transfer Rate: 30Mbps.

Transmitting Power: max 23dbm.

POE Supports IEEE 1588 specs, 10/100Mbps; supports IEEE 802.3 af/at POE.

WIFI Supports 2.4G frequency band 802.11n MIMO (2.4GHz Band/20MHz bandwidth).

Protective Design IP66 compliant.

2.SPECIFICATIONS

Operating System (OS)	Linux4.9.11
CPU	Cortex-A9 dual 800MHz, can be upgraded to quad-core 1GHz
RAM	DDR3L 1600Mhz 1GB
STORAGE	eMMC 8GB
Cellular	GSM/WCDMA/TD-SCDMA/CDMA/EVDO/FDD/TD
V2X	LTE-V 3GPP compliant Rel. 14 specs
GNSS	BEIDOU/GPS/GLONASS/Galileo/QZSS, max update frequency 10Hz
WiFi	2.4GHz
Ethernet	10/100Mx1 channel

Electrical Environment Characteristics

Power Supply	48V ~ 57V (IEEE802.3 af/at POE)
Run/Storage Temperature	-40°C~+80°C
ESD	IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
Power Consumption	<12W
Run Humidity	10% ~ 95% (no condensation)
Vibration	MIL-STD-810G
Protection Grade	IP66

Physical Characteristics

Dimensions	235mm*210mm*62mm
Colour	Industrial Grey
Weight	1.8KG