

# MK5 RSU

Cohda Wireless' 5th  
generation market  
ready Road Side Unit

Built with the same chipset as the MK5 OBU, the MK5 RoadSide Unit (RSU) is a rugged outdoor unit with integrated dual antennas, housed in a weatherproof enclosure.

The enclosure meets NEMA 4 requirements for indoor and outdoor use. It provides a degree of protection to personnel from hazardous parts, and protects the internal equipment from solid foreign objects such as falling dirt and windblown dust. It is also resistant to water: rain, sleet, snow, splashing and hose-directed water are kept out, and the enclosure is undamaged by formation of external ice.

Designed for Smart City deployments, the MK5 RSU offers exceptional range and coverage, and a single, inexpensive, self-contained unit can cover all approaches to an intersection. It's available in mains and Power over Ethernet (PoE) variants, and is also available as a reference design for developers of Smart City infrastructure.



# MK5 RSU Specs

## Standard Conformance

IEEE 802.11- 2012  
IEEE 1609 - 2016  
ETSI ES 202 663  
SAE J2735 - 2016  
CE and FCC Compliant

## Bandwidth

10 MHz

## Data Rates

3 - 27 Mbps

## Operating System

Linux 3.10.17

## Antenna Diversity

CDD Transmit Diversity  
MRC Receive Diversity

## Receiver Sensitivity

-99 dBm @ 3 Mbps

## Environmental Operating Ranges

-40°C to +85°C

## Frequency Band

5.9 GHz

## Max Tx Power

+22 dBm (ETSI Mask C)

## GNSS

2.5 m Best-In-Class Accuracy

## Mobility & Multipath Tolerance

Doppler Spread: 800 km/hr  
Delay Spread: 1500ns

## Dimensions

240 x 165 x 67 mm

## Power Supply

POE

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