



## MK5 RSU

# Cohda Wireless' 5<sup>th</sup> generation market ready Road-Side Unit

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

The enclosure meets NEMA 4 / IP67 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 and corrosion: rain, sleet, snow, splashing and hose-directed spray 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

### Text 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 4.1.15

### 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

-167 dBm navigation sensitivity  
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 regular



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