



## MK5 RSU

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### 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 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

### 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

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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