



## MK5 OBU

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### Cohda Wireless' 5<sup>th</sup> generation market ready On-Board Unit

Cohda's fifth-generation On-Board Unit (OBU), the MK5 is a small, low-cost, rugged module that can be retrofitted to vehicles for aftermarket deployment or field trials, and can also serve as a design reference for automotive production and Smart City deployments.

The MK5 exchanges data at high speeds over extended distances, providing class-leading reaction times to potential hazards and safety critical scenarios. In challenging outdoor conditions where no line-of-sight is available, its radio performance is unmatched.

Based on the automotive-grade RoadLINK chipset developed by Cohda in collaboration with NXP Semiconductors, it is a leader in global V2X trials and offers a robust, secure foundation for the intelligent transport systems of the future

## MK5 OBU Specs

### Text Standard Conformance

IEEE 802.11- 2012  
IEEE 1609 - 2016  
ETSI ES 202 663  
SAE J2735 - 2016

### 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

130 x 120 x 35 mm

### Power Supply

12/24V



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