Cohda Wireless’ 5th 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