Cohda Wireless

MK5 OBU

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 feld 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

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 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
130 x 120 x 35 mm

Power Supply
12/24V

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