MK5 RSU

Cohda Wireless' 5th generation market ready Road Side Unit

Built with the same chipset as the MK5 OBU, the MK5 RoadSide 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

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 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
240 x 165 x 67 mm

Power Supply
POE