



## MK5 RSU

Cohda Wireless' 5th 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.



*Cohda Wireless is a global leader in the development of Connected Vehicles and Connected Autonomous Vehicle software with proven applications for Smart City, Mining and other environments.*

*Cohda Wireless' V2X technology is proven with inclusion in the first two production vehicles giving Cohda Wireless practical experience in bringing automotive ITS solutions to industry.*

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# MK5 RSU



TEST STANDARD CONFORMANCE	
DSRC V2X	IEEE 802.11- 2012 IEEE 1609 - 2020 ETSI ES 202 663 SAE J2735 – 2020
CERTIFICATION	EU RED, FCC
CORE FEATURES	
CPU	NXP i.MX6 DL (4000 DMIPS)
OS	Ubuntu 20.04 LTS with Linux 4.14.98
RAM	1GB SDRAM
FLASH	4GB eMMc
STORAGE	4GB
ETHERNET	10/100 Mbps
POWER SUPPLY	POE 802.3at Class 4
RECEIVER SENSITIVITY	-99dBm @ 3Mbps
MAX Tx POWER	DSRC: +22dBm (ETSI Mask C)
BANDWIDTH	10 MHz
POSITIONING	GNSS -167 dBm navigation sensitivity, 2.5m accuracy
SECURITY	SXF1700
ENVIRONMENTAL OPERATING RANGE	-40°C to + 85°C
DIMENSIONS	240mm x 165mm x 67mm
ENCLOSURE & CONNECTORS	IP67
MOBILITY & MULTIPATH TOLERANCE	Doppler Spread: 800 km/hr Delay Spread: 1500ns
WIRELESS CONNECTIVITY	
DSRC	NXP RoadLink® SAF5100
CONNECTORS	
ANTENNAS	2 x DSRC, 1 x GNSS
INTERFACE	1 x Ethernet (IEEE802.3)
POWER	1 x M12 ETH PoE+
KITS CONTENTS	
ANTENNAS	1x GNSS, 2x 5.9GHz DSRC Omni Directional
OTHER	1x PoE Connector, 1x Mounting Bracket

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