![Cohda Wireless — A DANLAW COMPANY]

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.

cohdawireless.com

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