Cohda Wireless

Product Brief:

MK6 RSU

Cohda Wireless 6th generation Road-Side Unit is the most advanced V2X RSU with dual V2X technology using the latest connectivity with:

- DSRC with 2x NXP RoadLink® SAF5400 chipset
- C-V2X with Qualcomm SA515 chipset supporting 3GPP R15, 5G
- Cellular 5G NR with fallback support for 4G (LTE Cat 19)/3G/2G
- Wi-Fi 802.11 a/b/g/n/ac
- Bluetooth v5.1

Cohda Wireless RSU offers a robust, secure foundation for intelligent transport systems of the future no matter the technology choice of C-V2X or DSRC.

WLAN 2   DSRC 1   PoE+   DSRC 2   WLAN BT

Cellular Diversity   C-V2X 1   GNSS   C-V2X 2   Cellular Main

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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TEST STANDARD CONFORMANCE

V2X	IEEE 802.11- 2012 IEEE 1609 - 2020 ETSI ES 202 663 SAE J2735 – 2020 SAE J3161/1, J3161/1A, J3161 - 2022 T/CSAE-2021
CERTIFICATION*	EU RED, FCC, OmniAir

CORE FEATURES

CPU	NXP i.MX 8 (8544 DMIPS) operating at 800MHz
OS	Ubuntu LTS
RAM	1GB SDRAM
FLASH	16GB eMMc
STORAGE	8GB microSD Card supporting SDHC / SDXC
ETHERNET	10/100/1000 Mbps Ethernet PoE+
POWER SUPPLY	POE+ 802.3at Class 4 (Mode A and Mode B)
RECEIVER SENSITIVITY	-99dBm @ 3Mbps
MAX Tx POWER	DSRC: +22dBm (ETSI Mask C) C-V2X: +21.5dBm (Class 3)
BANDWIDTH	10 & 20 MHz
POSITIONING	Advanced GNSS with RTK capability
SECURITY	SXF1800 FIPS 140-2 level 3 compliant, CC EAL4+ Mizar TTM2000 (China variant)
ENVIRONMENTAL OPERATING RANGE	-40°C to + 74°C
DIMENSIONS	293mm x 233mm x 104mm
ENCLOSURE & CONNECTORS	IP67
TAMPER PROTECTED	Tamper Switch

WIRELESS CONNECTIVITY

DSRC	NXP RoadLink® SAF5400
C-V2X	Qualcomm SA515
CELLULAR	Cellular 5G NR with 4G (LTE Cat 19)/3G/2G fall back
WI-FI	802.11 a/b/g/n/ac
BLUETOOTH	V5.1

CONNECTORS

ANTENNAS	2 x C-V2X, 2 x DSRC, 2 x LTE, 2 x Wi-Fi/BT, 1 x GNSS
INTERFACE	1 x Ethernet (IEEE802.3)
POWER	1 x M12 ETH PoE+

KITS CONTENTS

ANTENNAS	1x GNSS, 4x 5.9GHz Omni Dir., (2 x DSRC, 2 x C-V2X), 2x LTE, 2x WiFi-BT
OTHER	1x PoE Connector, 1x Mounting Bracket

* Target certification

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