

MK6 OBU

Cohda Wireless 6th generation On-Board Unit is the most advanced V2X OBU 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 OBU offers a robust, secure foundation for intelligent transport systems of the future no matter the technology choice of C-V2X or DSRC.



Conda 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.

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

cohdawireless.com



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TEST STANDARD CONFORMANCE

IEEE 802.11- 2012 IEEE 1609 - 2020 ETSI ES 202 663 SAE J2735 - 2022

SAE J3161/1, J3161/1A, J3161 - 2022

T/CSAE-2021

CERTIFICATION CE, UKCA, FCC, ISED, KC, OmniAir*



V2X

CPU NXP i.MX 8 (8544 DMIPS) operating at 800MHz

OS Ubuntu LTS
RAM 1GB SDRAM
FLASH 16GB eMMc

STORAGE microSD Card slot supporting SDHC / SDXC

ETHERNET 10/100/1000 Mbps

POWER SUPPLY 7-36 VDC

BACKUP POWER <1mA at 12V input 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 172mm x 168mm x 51mm

WIRELESS CONNECTIVITY

DSRC NXP RoadLink® SAF5400 C-V2X Qualcomm SA515

CELLULAR Cellular 5G NR with 4G (LTE Cat 19)/3G/2G fall back

WIFI 802.11 a/b/g/n/ac

BLUETOOTH V5.1

CONNECTORS

ANTENNAS 1x 3in1 C-V2X / DSRC / GNSS, 2 x LTE, 2 x Wi-Fi/BT

Ethernet (IEEE802.3)

Automotive Ethernet (100BASE-T1)

INTERFACES USB 2.0 high-speed, on-the-go (host/peripheral)

 $\label{thm:light} \mbox{High speed CAN maximum throughput (5Mbit/sec (CAN-FD) with a CAN}$

transceiver of 2 MicroSD card slot

POWER 1 x Molex Mini50





















KIT CONTENTS

ANTENNAS

1x 3in1 C-V2X / DSRC / GNSS 2x LTE 2x Wi-Fi/BT

* Target certification

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