

MK5 OBU

Cohda Wireless' 5th generation market ready On-Board Unit

Cohda's fifth-generation On-Board Unit (OBU), the MK5 is a small, low-cost, rugged module that can be retrofitted to vehicles for aftermarket deployment or field trials, and can also serve as a design reference for automotive production and Smart City deployments.

The MK5 exchanges data at high speeds over extended distances, providing class-leading reaction times to potential hazards and safety critical scenarios. In challenging outdoor conditions where no line-of-sight is available, its radio performance is unmatched.

Based on the automotive-grade RoadLINK chipset developed by Cohda in collaboration with NXP Semiconductors, it is a leader in global V2X trials and offers a robust, secure foundation for the intelligent transport systems of the future



Consa 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.



MK5 OBU

IEEE 802.11- 2012 IEEE 1609 - 2020 ETSI ES 202 663 SAE J2735 – 2020
EU RED, FCC
NXP i.MX6 DL (4000 DMIPS)
Ubuntu 20.04 LTS with Linux 4.14.98
1GB SDRAM
4GB eMMc
4GB
10/100 Mbps
7V – 36V DC
-99dBm @ 3Mbps
DSRC: +22dBm (ETSI Mask C)
10 MHz
GNSS -167 dBm navigation sensitivity, 2.5m accuracy
SXF1700
-40°C to + 85°C
130mm x 120mm x 35mm
Doppler Spread: 800 km/hr
Delay Spread: 1500ns
NXP RoadLink® SAF5100
2 x Radio 5GHz, 1x GNSS
1 x Ethernet (IEEE802.3)
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1 x Molex Micro-fit 3.0 4 pin connector
1 x Molex Micro-fit 3.0 4 pin connector



Cohda Wireless Pty Ltd 27 Greenhill Road Wayville SA 5034 Australia P +61 8 7099 5500 inquiry@cohdawireless.com

OTHER

Cohda Wireless Europe GmbH P +49 89 208 026548 inquiry.eu@cohdawireless.com

1x DC Cord

Cohda Wireless America LLC P +1 317 818 5595 inquiry.na@cohdawireless.com Cohda Wireless China P +61 8 7099 5500 inquiry.ch@cohdawireless.com

Beijing BOCON Automation Tech Co Ltd (China) P +86 10 5166 3110 inquiry@bocon.com.cn

MDS Tech Inc (Republic of Korea) P +32 31 602 2042 cohda.wireless@mdstech.co.kr

Nexty Electronics (Japan) P +81 3 5462 9724 inquiry.jp@cohdawireless.com