

MK5 XBU

Cohda Wireless' 5th generation market ready Mining unit.

Built specifically for mining operations, our MK5 XBU can be deployed on vehicles or as fixed infrastructure. It is also available as a reference design for mining equipment developers.

The MK5 XBU is based on our MK5 OBU and RSU products, ruggedised for the harsh conditions of underground mining operations. Its communication range is outstanding, and it can determine its location precisely, even deep underground.

To improve safety as well as productivity, the MK5 XBU can provide ranging to people via personnel tags, and it can be remotely configured to minimise the need for on-site personnel.



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.

MK5 XBU

TEST STANDARD CONFORMANCE

DSRC V2X	IEEE 802.11- 2012
	IEEE 1609 - 2020
	ETSI ES 202 663
	SAE J2735 – 2020
CERTIFICATION	CE, 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	XBU-I: POE 802.3at Class 4 XBU-V: 12/24V
RECEIVER SENSITIVITY	-99dBm @ 3Mbps
MAX Tx POWER	+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	NEMA4 / IP67
MOBILITY & MULTIPATH TOLERANCE	Doppler Spread: 800 km/hr Delay Spread: 1500ns

WIRELESS CONNECTIVITY

DSRC	NXP RoadLink® SAF5100
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CONNECTORS

ANTENNAS	2 x DSRC, 1 x GNSS
INTERFACE	1 x Ethernet (IEEE802.3), 1x USB 2.0
POWER	XBU-I: 1 x X-Code M12 PoE XBU-V: 1x X-Code M12 Ethernet, 1x A-Code M12 CAN

KITS CONTENTS

ANTENNAS	2x DSRC Antennas, 1x GNSS
OTHER	XBU-I: 1x M12 PoE Connector, 1x Mounting Bracket XBU-V: 1x X-Code M12 PoE Connector, 1 x A-Code M12 Connector, 1x Surface Mount Bracket,



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

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

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
cohdawireless@mdstech.co.kr

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