



## MK5 XBU

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### Cohda Wireless' 5<sup>th</sup> 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.

## MK5 XBU Specs

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### Text Standard Conformance

IEEE 802.11- 2012  
IEEE 1609 - 2016  
ETSI ES 202 663  
SAE J2735 – 2016  
CE and FCC compliant

### Bandwidth

10 MHz

### Data Rates

3 - 27 Mbps

### Operating System

Linux 4.1.15

### Antenna Diversity

CDD Transmit Diversity  
MRC Receive Diversity

### Receiver Sensitivity

-100 dBm @ 3 Mbps

### Environmental Operating Ranges

-40°C to +85°C

### Frequency Band

5.9 GHz

### Max Tx Power

+26 dBm EIRP

### GNSS

2.5 m Best-In-Class Accuracy

### Mobility & Multipath Tolerance

Doppler Spread: 800 km/hr  
Delay Spread: 1500ns

### Dimensions

130 x 120 x 35 mm

### Power Supply

12/24V

