Cohda Wireless
A DANLAW COMPANY

Cohda Wireless MK6 OBU
Quick Start User Guide
4.3

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Prepared For	Cohda Wireless Customers
Prepared By	Suhant Raval
Authorised By	Andrea Ash
Reviewed By	Luis Colmenares
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ABN 84 107 936 309

Cohda Wireless Pty Ltd
27 Greenhill Rd
Wayville, SA 5034 Australia
P +61 8 7099 5500

www.cohdawireless.com

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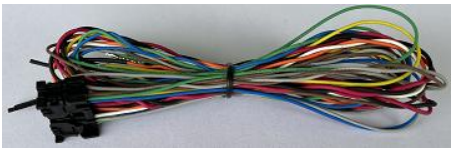
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1 Kit contents

Unpack the MK6OBU kit
The following items are included in the MK6OBU kit shipment.



MK6OBU



1x Cable harness cord [1*]



2x Wi-Fi/BT antennas



2x LTE antennas [2*]



1x DSRC/C-V2X antennas



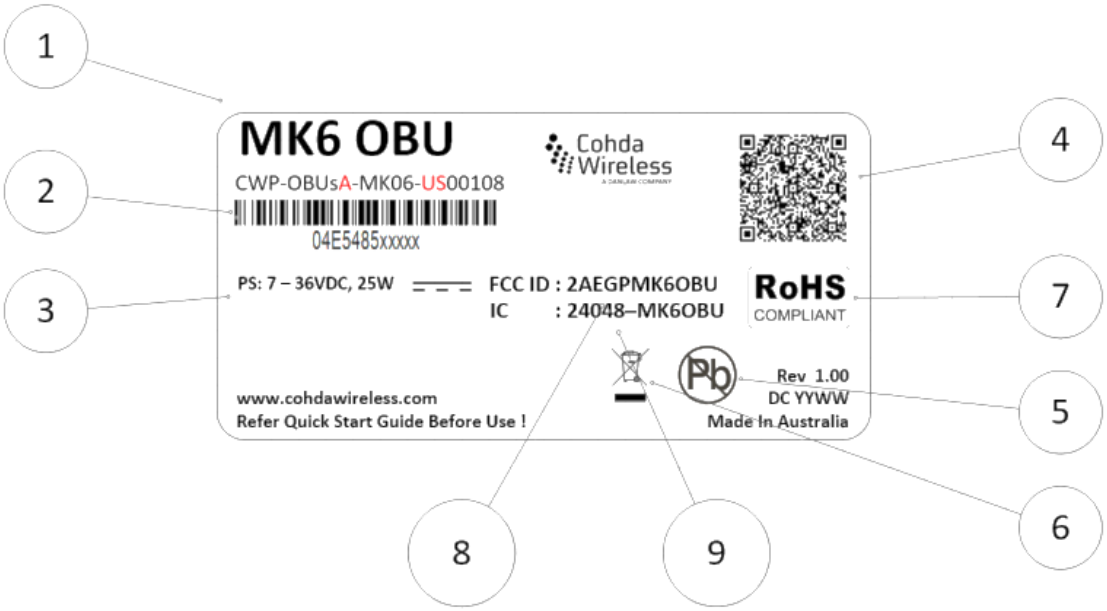
2x 50ohm terminators

Note :
*1 - Refer Appendix A for pin out definition.
*2 - These pictures are for illustration purposes only, Actual Item may differ from above pictures.

2 Product identification

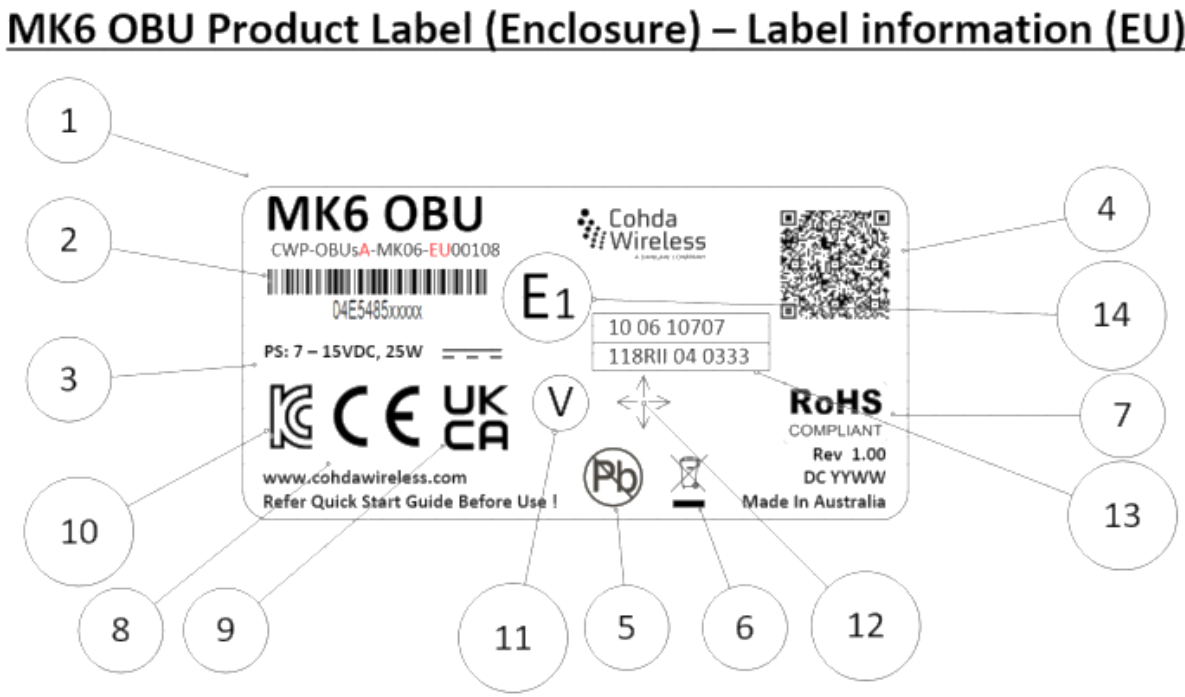
2.1. MK6OBU product label (enclosure) – label information (NA).

MK6 OBU Product Label (Enclosure) – Label information (NA).



1. Product Model No.
2. Product Sr. No. Bar code information
3. Power supply Rating
4. Product Ordering Code QR Code info
5. Product is manufactured using Lead Free Materials
6. Product Disposal Symbol
7. Product is ROHS complaint
8. FCC ID
9. IC ID

2.2. MK6OBU product label (enclosure) – label information (EU).



1. Product Model No and ordering code
2. Product Sr. No. Bar code information
3. Power supply Rating
4. Product Ordering Code QR Code info
5. Product is manufactured using Lead Free Materials
6. Product Disposal Symbol
7. Product is ROHS complaint
8. CE Mark Symbol
9. UKCA Mark Symbol
10. KCC Mark Symbol
11. Product comply for R118 to install in Passenger/ Driver's compartment
12. Product can be mounted Vertically/ Horizontally Inside Vehicle as per R118
13. ECE R10 and R118 file approval Number
14. Product complies to E1 Certification .

Note :
MK6OBU is certified for UN ECE-R10 approval for only 12VDC supply. For vehicles, which has 24VDC as battery voltage, user must use DC-DC power supply converter approved for UN-R10 for use in automotive vehicle environment.

Some of selection criteria shall be

1. At least 24W output power
2. Input 18-36VDC, Output – 12VDC.
3. Must be UN-ECE-R10 approved.
4. Mounting arrangement as per customer requirement.

3 SIM card installation

Verify that MK6OBU is not connected to cable harness, USB cable, Ethernet cable and antennas.

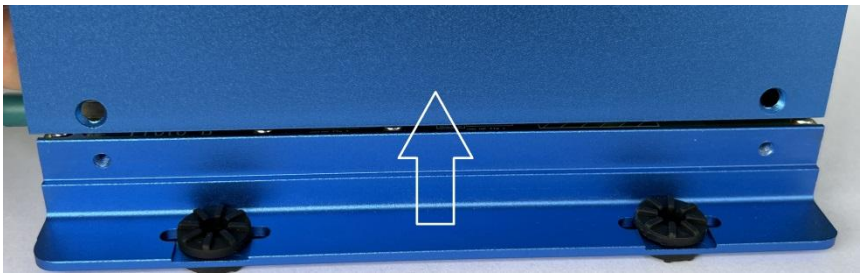
Remove six screws from front panel and six screws from rear panel. Remove front and real panel with philips size 1 screwdriver.



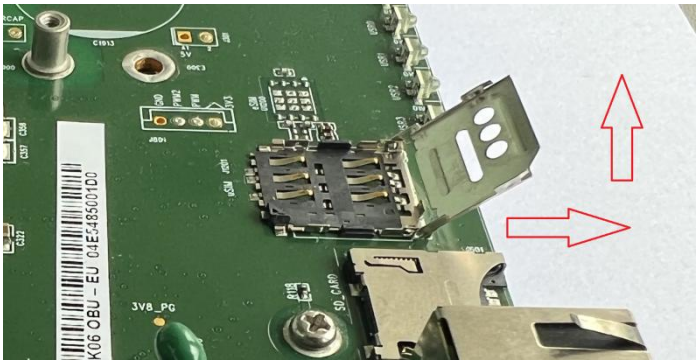
Remove two screws from side of enclosure with philips size 1 screwdriver.



Lift one side of top enclosure then remove the entire top enclosure. Do not slide top enclosure horizontally. Doing so can damage internal thermal gap pads.



Slide SIM socket cover toward right and slip it up.



Insert micro SIM card onto socket. Slip socket cover down and slide it toward left.

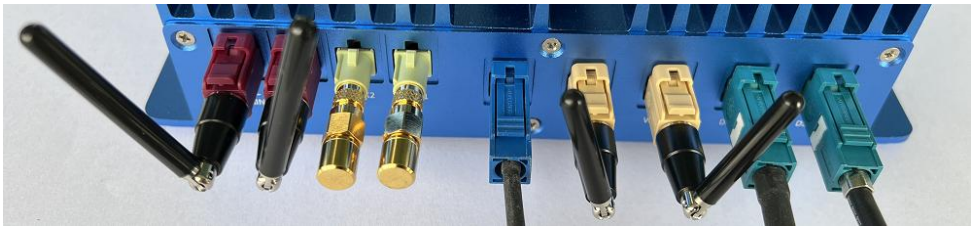


Close the top enclosure. Reverse steps 2.4. Install and fasten front and rear panel screws. Lastly, fasten two screws at side panel of enclosure. Please use 5kgf.cm +/- 10% torque for all screws.

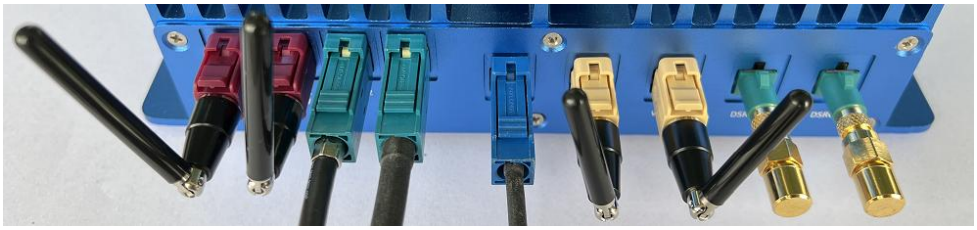
4 Connecting MK6OBU

Connecting DSRC / C-V2X application antenna connection.

Connect antennas to MK6OBU as shown.
DO NOT connect two MK6 units together without 50dB attenuation in between.
For DSRC application antenna connection. Please connect 50 ohm terminator at unused C-V2X RF ports.



For C-V2X application antenna connection. Please connect 50 ohm terminator at unused DSRC RF ports.



Connect 12VDC (nominal voltage) to MK6.



The SYS (SYSTEM) LED will be illuminated Green immediately after voltage is applied this indicates MK6 is ready to be used.



5 Cable harness pin out overview



Pin Number	Pin function	Color
1	CAN_P	Green
2	VIC_GPIO1	Grey
3	RS232_TX	White
4	VIC_GPIO3	Blue
5	VIC_GPIO4	Green
6	VIC_ETH_P	Brown
7	CAN_N	Blue
8	VIC_GPIO2	Brown
9	RS232_RX	Orange
10	GND	Black
11	V-BAT	Red
12	V-BAT	Red
13	GND	Black
14	IGNITION_IN	Yellow
15	NC	
16	VIC_ETH_N	Grey

6 RF bands

All details related to Cellular Bands (4G, 5G and WCDMA), Wi-Fi Bands, Bluetooth, C-V2X and DSRC bands are available at https://support.cohdawireless.com on relevant pages.

7 Link to Documentation and Software Support

Please register at Cohda Wireless Support Website
It can be accessed in two ways:

- Directly via https://support.cohdawireless.com
- Through the "Customer Support" on the Cohda Wireless website www.cohdawireless.com

On the signup page, enter your name and email address in order to register for Support and access to technical documentation.
Your email address **has to be the Company email address** and not your personal email address.
Please submit a support request by clicking on the button "Submit a request" to ensure your account is validated.
Once your account has been validated and you have logged into the Customer Support website, you will have access to the information on all Cohda products, how to develop applications and FAQs.
If you have purchased the SDK license, this will be made available to you via the Cohda Wireless Support website upon account validation.

8 Warnings, Symbols and Marking Warning



Improper handling may lead to serious injury or even death.

8.1. Caution



Be sure to follow the instructions.

8.2. Attention



Improper handling may lead to injury or property damage.

8.3. Product Disposal



Products that are marked with the above symbol may not be disposed of as unsorted municipal waste (domestic waste). They should be disposed of through separate collection of electric and electronic devices. This product and its packaging are manufactured from materials that can be recycled by specialist recycling companies. The product must be supplied to a specialist recycling company. Do not use municipal waste collection points. These may be used for privately used products only in accordance with WEEE Directive 2012/19/EU.

CE 

The MK6OBU complies to Radio Equipment Directive 2014/53/EU. A copy of the Declaration of Conformity is available on request.

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: 

- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

RF Radiation Exposure Statement Caution: 

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

RF Radiation Exposure Statement Caution: 

To maintain compliance with the FCC's RF exposure guidelines, place the product at least 20cm away from nearby persons.

WARNING: 

Modifications not approved by manufacturer could void compliance.

Others:

The MK6OBU is RoHS and Lead-Free compliant. It complies with the "Directive 2011/65/EU of the European Parliament and the Council on the Restriction of Use of certain Hazardous Substances in Electrical and Electronic Equipment" (RoHS)

Industry Canada statement:

1. This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

a) This device may not cause interference, and

b) This device must accept any interference, including interference that may cause undesired operation of the device.

1. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

a) l'appareil ne doit pas produire de brouillage, et

b) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

2. This Class B digital apparatus complies with Canadian ICES-003.

2. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

3. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter, except tested built-in radios.

3. Cet appareil et son antenne ne doivent pas être situés ou fonctionner en conjonction avec une autre antenne ou un autre émetteur, exception faites des radios intégrées qui ont été testées.

4. The County Code Selection feature is disabled for products marketed in the US/ Canada.

4. La fonction de sélection de l'indicatif du pays est désactivée pour les produits commercialisés aux États-Unis et au Canada.

Caution:

1) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

2) the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit; and

3) the maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate.

4) Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Avertissement:

1) les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

2) le gain maximal d'antenne permis pour les dispositifs utilisant les bandes 5250-5350 MHz et 5470-5725 MHz doit se conformer à la limite de p.i.r.e.;

3) le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725-5825 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

4) De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Déclaration d'exposition aux radiations: Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

⚠ **For questions or technical support, please reach out to Cohda Wireless Customer Support:**

✉ Email: support@cohdawireless.com

🌐 Website: www.cohdawireless.com / www.support.cohdawireless.com