



Kymeta™ u8 GO Case Installation Instructions

PRODUCT CODE: U8ACC-00007-0

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22 June 2023

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1 About this document

This document describes how to assemble and install Kymeta™ u8 GO case accessory (U8ACC-00007-0) for the Kymeta Hawk™ u8 user terminal, herein after referred to as "UT."

2 What's in the kit

- | | |
|---|---------------------------------------|
| » (1) Kymeta u8 GO case with integrated 600 W/ 24 VDC AC-to-DC power supply | » (1) Loctite 242 |
| » (1) W38E power jumper cable, 40.64 cm (16 in.) | » (8) M6 × 8 mm button head cap screw |
| » (1) T10 Torx L-key | » (3) M5 × 12 mm flat head screw |
| » (1) T20 Torx L-key | » (1) customer GO label |
| » (1) T30 Torx L-key | » (2) M3 nylon locking nut |
| » (1) 5.5 mm open-end wrench | » (2) M3 × 30 mm Torx screw |
| » (1) 8 mm hex L-key | » (1) connector bulkhead plate |
| » (6) 8 in. zip ties, black | » (3) zip tie anchor |
| | » (3) roll-in T-nut |

The additional items in the vehicle mount alternate bails accessory case, which are not used for u8 GO case installation, are the alternate bails and the burlap bag screws/L-key.

3 Required tools

The following tools are required for installation but are not included with the kit:

- | | |
|-----------------|----------------------|
| » torque wrench | » crescent wrench |
| » scissors | » needle-nose pliers |

4 Compatibility

If your UT looks like the one below, it is not compatible with this GO case accessory (U8ACC-00007-0). Contact Kymeta to order the correct GO case model (U8ACC-00072-0).



5 Before you begin

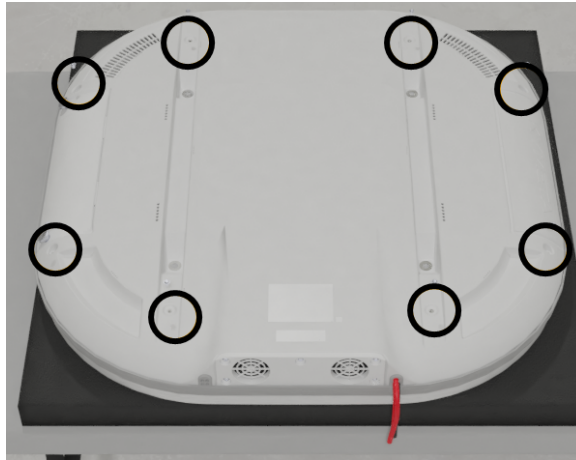
Before you install any components, refer to *Kymeta u8 products safety and handling guide (700-00122-000)* to familiarize yourself with the key steps to remember while installing the u8 components.

 The u8 GO case has a kickstand for elevating the integrated u8 UTs while the u8 GO is stationary. Do not engage the kickstand while the u8 GO is in motion.

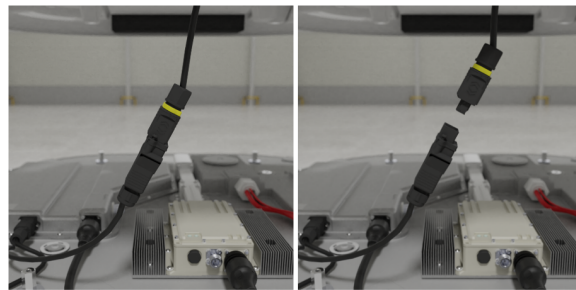
6 Install the u8 GO case

6.1 Remove the shroud

1. Disconnect power from the UT and place it shroud-up on the foam inside of the GO case lid to protect the radome.
2. Remove (8) M6 × 8 mm button head cap screws using the T20 Torx L-key or T30 Torx L-key.



3. Gently lift the shroud until the shroud fan cable connector is accessible.
4. Unlock the shroud fan cable connector by rotating the yellow ring counterclockwise to the unlock position, and then disconnect the shroud fan cable as shown below.



5. Fully remove the shroud and place it aside.

 The cable glands are not attached to the shroud and may move freely when the shroud is removed. This is an intentional ease of use feature. Take care not to misplace the cable glands.

6.2 Install the W38E power jumper cable

1. Disconnect and remove the unterminated power cable.



2. Install the W38E power jumper cable:
 - a. Align the pins and use the ramp to lock the cable connector.



- b. Install the cable gland so the groove aligns with the shroud cutout. Use the correct sized cable gland and ensure the cable rests snugly in the gland for best performance.



6.3 Reinstall the shroud

1. Reconnect the shroud fan cable. Align the yellow arrows on the cable connectors and then lock the connectors by rotating the yellow ring clockwise to the lock position.
2. Set the shroud in place and ensure external cables and cable glands are properly secured.
3. Ensure the mounting points are clear and cables under the shroud are not pinched. Ensure the metal compression limiter is aligned with the mounting point threads as shown below.



4. Ensure the shroud rests evenly on the beltline.
5. Install (8) M6 × 8 mm button head cap screws provided in the kit using a T30 Torx L-key and torque to 2.8 N-m (25 in.-lb.). These screws have a nylon patch, so Loctite 242 is not required.

6.4 Perform functional verification

1. Check that the power supply is not plugged into an AC power source, then connect the power supply to the u8 terminal. This interface is outdoor rated with an ingress-protection level of IP67.
2. Plug the power supply into an AC power source. If installed correctly, the LED status indicators on the communication module will illuminate. Note that the connection from the wall outlet to the AC-to-DC power kit uses a NEMA-15 connector, which is not outdoor rated. Disconnect power supply once functional verification is complete.
3. Fill out the customer GO label with the following information (you will attach this label to the u8 GO case later):
 - » u8 GO case serial number: located on the u8 GO accessory label located on the outside upper of the case.
 - » Terminal serial number, modem serial number, HD1 IMEI, HD1 SSID: located on the u8 terminal product label located on the u8 terminal shroud near the fan exhaust.

KYMETA™

GO CASE SN: _____

TERMINAL SN: _____

MODEM SN: _____

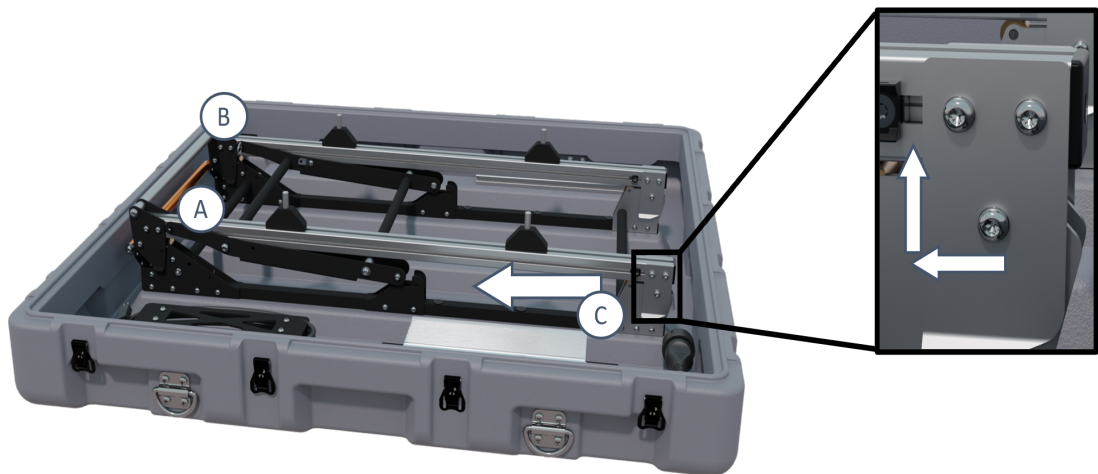
HD1 IMEI: _____

HD1 SSID: _____

EMAIL: support@kymetaCorp.com
 WEBSITE: www.kymetaCorp.com
 PATENT: www.kymetaCorp.com/patents
 12277 134th Court NE, Suite 100, Redmond, WA 98052 USA

6.5 Integrate the UT in the u8 GO case

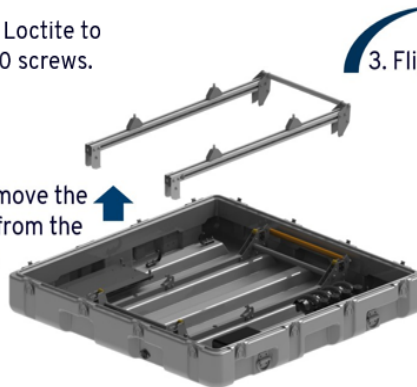
1. Disconnect the power from the UT.
2. Lay the cabling away from the inserts, ensuring cabling won't interfere with installation.
3. Remove the GO mounting rails from the case as follows:
 - a. Press the latch release bar.
 - b. Lift on the lift handle.
 - c. Pull the rails towards the handle and lift. A gentle pull may be required to disengage the mounting rails from the pivot point.



4. Apply Loctite 242 to the four M10 × 1.25 mm × 45 mm socket head cap screws on the mounting rails, and install the rails, aligning the lift handle with the Kymeta logo on the UT. Torque to 33.9 N-m (300 in.-lb. [25 ft.-lb.]). Refer to [Appendix A. Loctite 242 instructions](#) for application information.

2. Add Loctite to the M10 screws.

1. Remove the rails from the case.



3. Flip the rails.



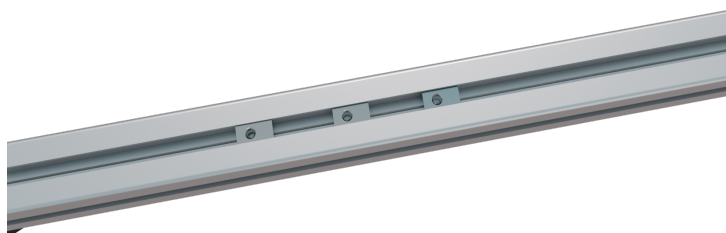
4. Align the M10 screws to the UT mount points. Torque to 33.9 N-m (300 in.-lb. [25 ft.-lb.]).

5. If you want to install the connector bulkhead plate, remove the bulkhead plate from the packaging and install the connectors before attaching the bulkhead to the rails.

- » RX and TX connectors have a captive hex nut for attachment. Apply Loctite 242 and torque to 1.3 N-m (13 in.-lb.).
- » The Ethernet cable connector is attached with the two M3 × 30 mm Torx screws and M3 nylon locking nuts. Align the connector as shown below and torque to 0.8 N-m (7 in.-lb.).



6. Install the roll-in T-nuts in the rail channel as shown below.



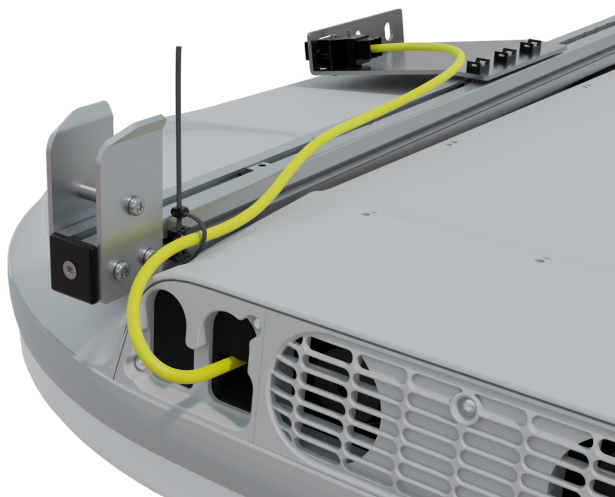
7. Align the bulkhead plate and the roll-in T-nuts with the rail, approximately 11.5" from the sheet metal pivot plates as shown below. Tape is installed at this 11.5" marker for convenience.



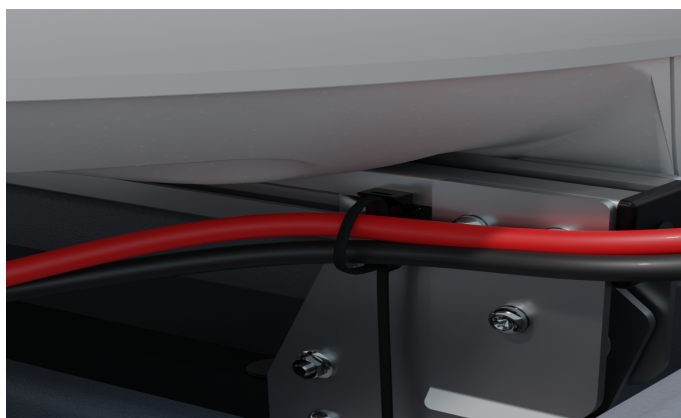
8. Secure the bulkhead plate to the roll-in T-nuts with the M5 × 12 mm flat head screws, installing one cable tie mount at each screw location. Torque screws to 1.7 N-m (15 in.-lb.). Use pliers to hold the cable tie mounts in place while torquing.



9. Secure the cable(s) using zip tie anchors at the appropriate zip tie mounts. The following image details how to install the Ethernet cable. If RX/TX cables are installed, secure all cabling with a single zip tie anchor near the fan panel and then split them out at the bulkhead plate. Ensure RX/TX cables maintain a bend radius of 2 in. minimum to avoid damaging the cables and to prevent rubbing.



10. Secure the power cable to the mounting rails using the included zip tie anchor. There is a zip tie mount attached to the rails for this purpose located approximately as shown.



11. Install the UT in the u8 GO case by aligning the mounting rails with the pivot point and gently lowering the lift bar until the spring latch engages. If you removed the kickstand at any point, reinstall it by aligning the orientation arrows and attaching the pins.



12. Check that the power supply is not plugged into an AC power source and then connect the power supply to the UT.

13. Apply the customer GO label over the u8 GO accessory label on the GO case lid.



6.6 Verify system functionality

1. Reconnect the power connections and power on the u8 product.
2. Navigate to the antenna's web-based UI.
3. If you are using antenna software version 2.1.0 or later, navigate to the **State of Health** tab > **Power-On Self Test** window.

If you are using antenna software version 2.0.1 or earlier, navigate to the **State of Health** tab > **Built-In Self Test** window, and then click **Run Built-In Self Test**.

4. Verify all checks pass.

ACU SERIAL NUMBER	STATUS	START TIME	STOP TIME
ACU_SN	PASS	2021-02-16 20:57:01 UTC	2021-02-16 20:57:03 UTC

BIST TESTS	FAILURES	STATUS
▶ ApertureConfig	0	✓
▶ BucInfo	0	✓
▶ EucFileCheck	0	✓
▶ FPGA	0	✓
▶ Gamma	0	✓
▶ Heater	0	✓
▶ HWSensors	0	✓
▶ InterfaceBoard	0	✓
▼ LnbInfo	0	✓
LnbOperation		✓

7 Revision history

Revision	Change
A	Initial release
B	Updated Sections 5-8. Added Sections 10-11. Updated M6 fasteners and Torx spec.
C	Updated section 5. W38 E power cable update. Updated loctite information. Added compatibility section.

8 Copyright and trademark information

©2023 Kymeta Corporation. All Rights Reserved. KYMETA, HAWK, GOSHAWK, OSPREY, PEREGRINE, MAKING MOBILE GLOBAL, and CONNECTED BY KYMETA are trademarks of Kymeta Corporation, with registrations or pending applications in the U.S. and/or other countries. All other trademarks are the property of their respective owners.

Appendix A. Loctite 242 instructions

Loctite Threadlocker Blue 242 is designed for the locking and sealing of threaded fasteners which require normal disassembly with standard hand tools. The product cures anaerobically when there is an absence of air between close fitting metal surfaces. It protects threads from rust and corrosion and prevents loosening from shock and vibration. For technical specifications and material safety, see the [Technical Data Sheet](#) and the [Safety Data Sheet](#).

 Loctite 242 causes skin and eye irritation, may cause damage to organs through prolonged or repeated exposure.

Prevention and response

Do not breathe vapors, mist, or spray. Wash affected area thoroughly after handling. Wear protective gloves.

Take off contaminated clothing. If on skin: wash with plenty of water. If skin irritation occurs, get medical attention.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if you feel unwell. If eye irritation persists, get medical attention.

For full response and safety details, see the [Loctite Safety Data Sheet](#).

Typical application properties

Parameter	Specification
Application temperature	Apply above 10 °C (50 °F)
Odor	Minimal
Set time	10 minutes on active metals (steel). Longer for less active metals.
Cure time	24 hours (dependent on temperature and the type of material being bonded)
Viscosity	900 – 1,400 cP

Application instructions

Apply a 360° bead of product to the leading threads of the male fitting, leaving the first thread free. Force the material into the threads to thoroughly fill the voids. For bigger threads and voids, adjust product amount accordingly and apply a 360° bead of product on the female threads also. Loctite applied in this manner will provide a water and dust resistant seal.