Kymeta™ u8 Fixed Mount Kit Installation Instruction

Document number: 700-00247-000 rev 04

Product code: U8ACC-00054-0

22 October 2024

Table of contents

1 Introduction

This document describes how to assemble and install the u8 fixed mount kit (U8ACC-00054-0) for the Kymeta Hawk™ u8 user terminal and Kymeta Goshawk™ u8 user terminal, herein after referred to "UT."

2 What's in the kit

- (1) Fixed mount subassembly
  - (1) fixed mount weldment
  - (1) floating clamp
  - (4) threaded rod
  - (8) M8 × 1.25 mm serrated flange nut
- (1) Antenna tilt weldment, left
- (1) Antenna tilt weldment, right
- (5) M10 × 1.5 mm × 16 mm socket head cap screw
- (5) M10 × 1.5 mm × 80 mm socket head cap screw
- 8 mm hex L-key
- Loctite 242

3 Tools required

- (1) 13 mm wrench
- 8 mm hex bit socket
- 13 mm socket
- scissors
- torque wrench

4 Before you start

The fixed mount is designed for use on poles ranging from 3 in. to 6 in. in diameter.

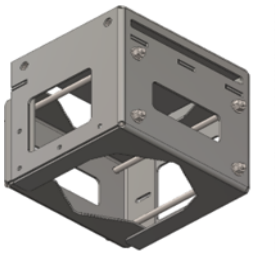
Consult with your mounting pole manufacturer to determine the mounting pole's compatibility and structural capability with the 40.9 kg (90.2 lb.) mount and terminal assembly.

If your UT looks like the one below, contact Kymeta and order the M10 × 1.25 mm × 80 mm socket head cap screw kit (U8ACC-00062-0) to complete installation.

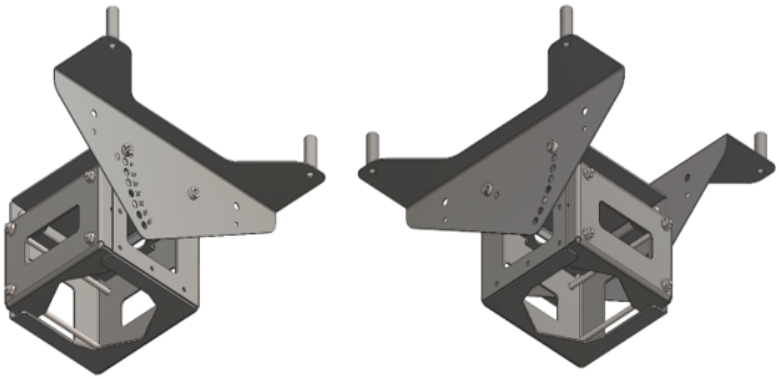
⚠ Using the wrong screws may damage the UT.

5 Install the fixed mount kit

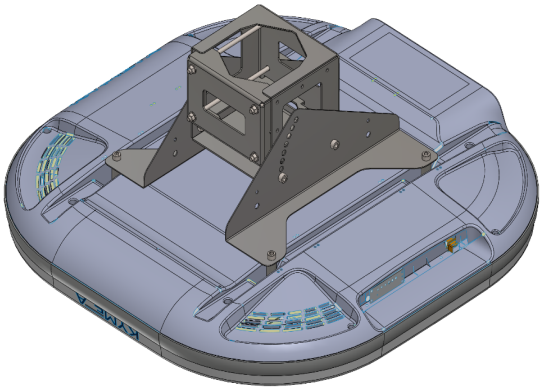
1. Remove the fixed mount subassembly from the box and remove the packaging zip ties and cardboard shipping inserts.



2. Using (2) M10 × 1.5 mm × 16 mm socket head cap screw, attach the right antenna tilt weldment to the fixed mount subassembly at 0° elevation angle. Repeat this step for left antenna tilt weldment on the opposite side of the fixed mount subassembly.
   For LEO operations, apply Loctite 242 to each screw and torque to 40 N-m (29.52 ft.-lb.) with a 8 mm hex bit socket. See *Appendix A. Loctite 242 instructions* for proper application information.
   For GEO operations, hand tighten each screw. Do not apply Loctite 242.



3. Place the UT shroud-up on a soft surface to protect the radome.
4. Place the fixed mount assembly on the UT, aligning with the holes on the shroud. Ensure the elevation adjustment holes of the fixed mount are opposite the fan side of the UT, as shown in the picture below.

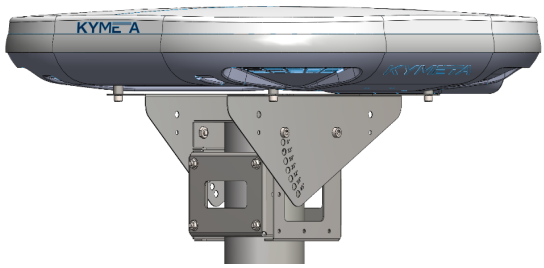


5. If your UT looks like the one below, use the M10 × 1.5 mm × 80 mm socket head cap screws, which are provided in the kit.

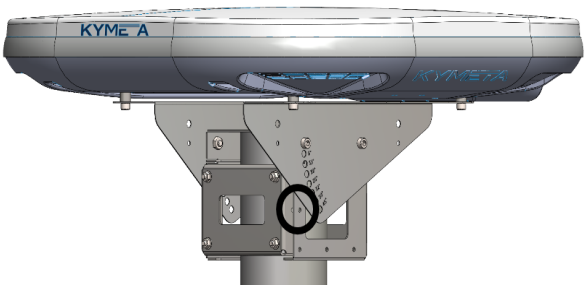
If your UT looks like the one below, use the M10 × 1.25 mm × 80 mm socket head cap screws, which are available separately and may be ordered from Kymeta (U8ACC-00062-0).

⚠ Using the wrong screws may damage the UT.

6. Apply Loctite 242 to the four socket head cap screws and torque to 33.9 N-m (25 ft.-lb.) with a 8 mm hex bit socket. See *Appendix A. Loctite 242 instructions* for proper application information.
7. Place the terminal on an appropriately sized mounting pole.



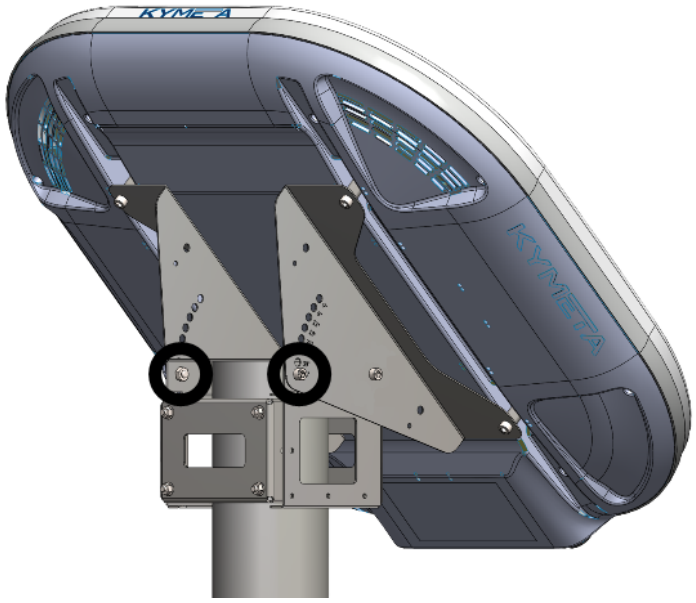
8. Rotate the terminal about the pole axis to the desired azimuth angle.
9. Clip and remove the shipping cable ties (1 per side) through the hole shown in the figure below and then torque the
(8) M8 × 1.25 mm serrated flange nuts to 10 N-m (7.38 ft.-lb.) with a 13 mm socket and 13 mm wrench.



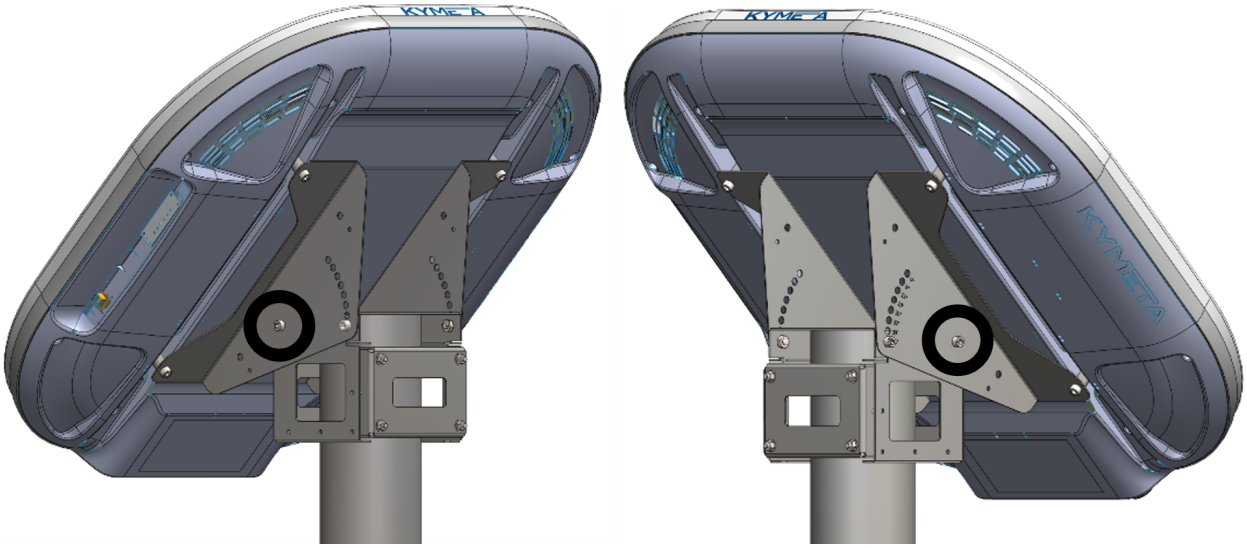
10. **For LEO operations**, leave the fixed mount at 0° elevation angle.

    For GEO operations:

    a. Remove the (2) elevation M10 × 1.5 mm × 16 mm socket head cap screws shown in the figure below, elevate the UT to the desired angle, and reinstall. Apply Loctite 242 to each screw and torque to 40 N-m (29.52 ft.-lb.) with a 8 mm hex bit socket. See *Appendix A. Loctite 242 instructions* for proper application information.



    b. Remove the (2) M10 × 1.5 mm × 16 mm socket head cap screws (one on each side and one at a time) shown in the figure below. Apply Loctite 242 to each screw and torque to 40 N-m (29.52 ft.-lb.) with a 8 mm hex bit socket.



6 Customer support

Contact your distribution partner (DP) for technical support. If you don't have your DP contact details, send your antenna and modem serial number at support@kymetacorp.com, and Kymeta will provide the contact information for your DP.

7 Revision history

Revision	Change
01	Initial production version
02	Added u8 GEO terminal hardware. Added Loctite 242 information.
03	Added torque wrench to required tools. Revised section What's in the kit to match item BOM. Added missing torque values.
04	Added the Goshawk u8 UT to the list of compatible terminals.

8 Copyright and trademark information

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.