



Kestrel™ u5 Low-Profile Surface Mount Kit Installation Instruction

Document number: 700-00371-000 rev 01

Product code: U5ACC-00008-0

18 August 2026

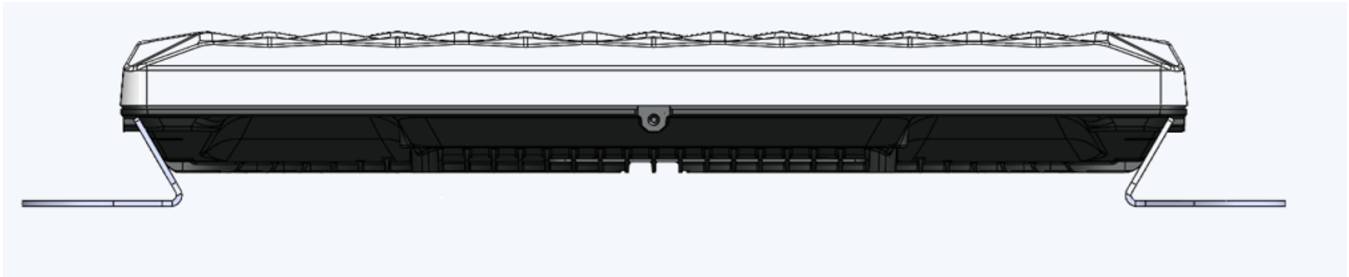
Table of contents

1 Introduction	3
2 What's in the kit	4
3 Tools required	4
4 Before you start	4
4.1 Mounting considerations	5
5 Install the mount brackets to the UT	6
6 Mount the UT	7
7 Final inspection	7
8 Customer support	7
9 Revision history	8
10 Copyright and trademark information	8

1 Introduction

This document describes how to install the **Kestrel u5 low-profile surface mount kit (outboard) (U5ACC-00008-0)** on the Kymeta™ Kestrel™ u5 user terminals, hereinafter referred to as the “UT”.

The low-profile surface mount kit supports installations where the UT is mounted directly to a flat surface. The bracket geometry elevates the UT above the mounting surface while maintaining a minimal overall profile.



Key features include:

- Low-profile mounting configuration
- 60° formed bracket geometry
- 3.18 mm material thickness
- Ventilated bracket structure to support airflow and reduce weight
- Extended mounting feet for increased mounting stability and preassembled top-down installation
- Ambidextrous bracket design

2 What's in the kit

- (2) Low-profile surface mount brackets
- (8) M6 × 12 black stainless steel button-head Torx screws with nylon patch, including two spare screws

3 Tools required

The following customer-supplied tools are required to install the kit:

- T30 Torx L-key wrench
- Torque wrench with T30 Torx bit, capable of applying at least 7.4 N·m (65 in.-lb.)

4 Before you start

Before installing any components, refer to the *Safety and Handling section of the Kestrel u5 User Manual (700-00354-000)*.

Verify the following before installation:

- All kit components are present and free from damage.
- The selected mounting location provides sufficient clearance for cable routing, installation, and serviceability.

 Support the UT on a clean, non-abrasive surface whenever the unit is removed from the vehicle or mounting structure.

4.1 Mounting considerations

When selecting the UT installation location and mounting configuration, consider the following recommendations.

- a. **Power safety:** Before mounting or installing UT, ensure all power sources are disconnected.
- b. **Grounding:** Chassis grounding for the UT is provided through the six M6 mounting screw locations. The installer is responsible for establishing a continuous, low-impedance grounding path and ensuring that the installation complies with all applicable electrical codes and grounding requirements.
- c. **Customer-supplied fasteners:** Kymeta recommends using the supplied mounting hardware to attach the mount brackets to the UT chassis. If your integration requires customer-supplied fasteners, ensure that the fasteners do not engage more than **12 mm (0.47 in.)** of thread in the UT mounting holes. Exceeding the maximum thread engagement depth may damage the UT chassis.
- d. **Clearance:** Verify that sufficient clearance is available for connector access, cable routing, future service activities, and passive cooling.
- e. **Thermal and cooling considerations:** The UT uses a fully passive thermal design with no fans or moving parts. Maintain unobstructed airflow beneath and around the UT during operation, including a minimum clearance of **19 mm (0.75 in.)** beneath the heatsink. Refer to the *Kestrel u5 User Manual (700-00354-000)* for additional thermal installation requirements.
- f. **Line of sight:** A clear line of sight is critical for proper UT operation. Install the UT in a location that provides an unobstructed view of the sky, with no obstructions from broadside to 28° above the horizon across a full 360° field of view. If a clear line of sight cannot be achieved, relocate the UT to an area with fewer obstructions.

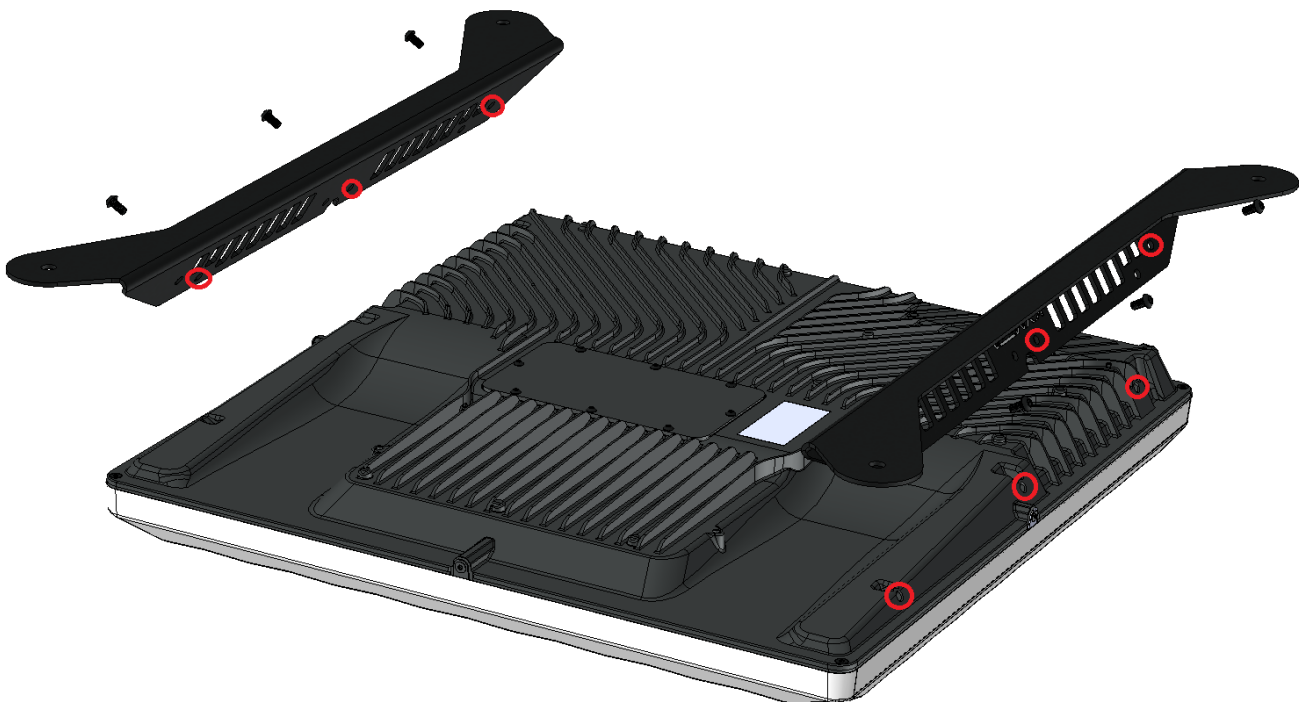


CLEAR LINE OF SIGHT: 28°-90° Elevation (Broadside to 62°)
Full 360° Azimuth

5 Install the mount brackets to the UT

⚠ Do not place excessive loads on the radome surface during handling, installation, or maintenance.

1. Place the UT **radome-side down** on a clean, non-abrasive surface.
2. Position one mount bracket against the UT and align the three bracket mounting holes with the corresponding mounting holes on the UT. The mount brackets have the same notch (above the Kymeta logo) to key them into the right position.
3. Install and hand-tighten **one M6 × 12 Torx screw** at each of the three mounting locations.



4. Using a **T30 Torx L-key wrench**, tighten the three screws evenly until the bracket is fully seated against the UT. **Do not apply final torque at this step.**
5. Verify that both mount brackets are fully seated and properly aligned.
6. Using a **torque wrench with a T30 Torx bit**, tighten the three screws evenly to **7.4 N·m (65 in.-lb.)**.
7. Repeat the preceding steps to install the second mount bracket on the opposite side of the UT.

6 Mount the UT

 Kymeta recommends completing these steps with two people.

1. Carefully lift the UT with the installed low-profile surface mount brackets and position it on the prepared mounting surface.
2. Align the mounting holes in the bracket feet with the prepared mounting locations.
3. Secure the mount brackets to the mounting surface using customer-supplied hardware appropriate for the mounting structure and installation environment.
4. Tighten the customer-supplied mounting hardware in accordance with the fastener manufacturer's recommended torque specification.
5. Verify that the UT is securely mounted, level, and properly positioned.
6. Verify that a minimum clearance of **19 mm (0.75 in.)** is maintained beneath the UT and that airflow paths are unobstructed.
7. Verify that sufficient clearance is maintained around the UT for cable routing without exceeding the minimum bend radius of the installed cables.

7 Final inspection

After completing the installation, verify the following:

- All mounting hardware is secure and tightened to the applicable torque specifications.
- Mounting hardware and connectors remain accessible for inspection and service.
- The UT, mounting brackets, cables, and surrounding installation area show no signs of damage or interference.

 Periodically inspect the mounting hardware and cable routing for loosening, wear, or damage caused by vibration or environmental exposure.

8 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.

9 Revision history

Revision	Change
01	Initial release.

10 Copyright and trademark information

©2026 Kymeta Corporation. All Rights Reserved. KYMETA, GOSHAWK, HAWK, KESTREL, OSPREY, and PEREGRINE 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.