KYMETA™

Kymeta u8 Terminal Vehicle Mount Kit Installation Guide

Product code: U8ACC-00003-0

Document number: 700-00141-000 revA

16 September 2020

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1   Introduction

Kymeta™ u8 product vehicle mount kit (U8ACC-00003-0) includes rails for mounting the u8 terminal or u8 ODU to a vehicle roof rack. It provides a mounting solution for communications-on-the-move, leveraging the Kymeta antenna's low-profile form factor. This document contains step-by-step details for the installation and setup of the Kymeta u8 product vehicle mount accessory.

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2   Safety recommendations

» To prevent personal injury or damage to equipment, correctly follow the instructions in this manual for fitting and use.

» Ensure all fasteners are correctly tightened and checked regularly during travel.

» Ensure the maximum load is no more than 40.8 kg (90 lb.). The u8 terminal vehicle mount is designed to carry only the u8 antenna and approved accessories.

» The handling characteristics of a vehicle (crosswind sensitivity, handling on bends, and braking) change when a carrier system is fitted. Alter your driving techniques to allow for these changes, including reducing your speed, especially on bends, and allowing for greater braking distances.

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3   Kit contents

The following parts are included with the vehicle mount kit.

Item	Drawing	Name	Quantity
A		Rail	2
B		Clamp bottom	4
C		Bolt cover	1
D		M8 nylock nut	8
E		M8 x 35 SHCS	8
F		M10 x 70 SHCS	4
G		Padlock	1
H		Cardboard tear off slider pads	4

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4   Required tools

Before you start, ensure you have all installation tools required for the assembly. Installation tools are not provided with the product. A list of required tools is provided below.

Item	Drawing	Name
1		6 mm hex key
2		8 mm hex key
3		Torque wrench to 40 n-m (29.5 ft. -lb.)
4		Blue Loctite

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5 Requirements and recommendations

» The roof load carrier may reduce fuel efficiency. Remove the roof load carrier after use to reduce fuel consumption.

» The minimum roof clearance is 6 mm (0.236 in.).

» This mount requires that the roof rack crossbars are less than 7.7 cm wide and the closest points on the forward/aft crossbars are 92.8 cm apart.

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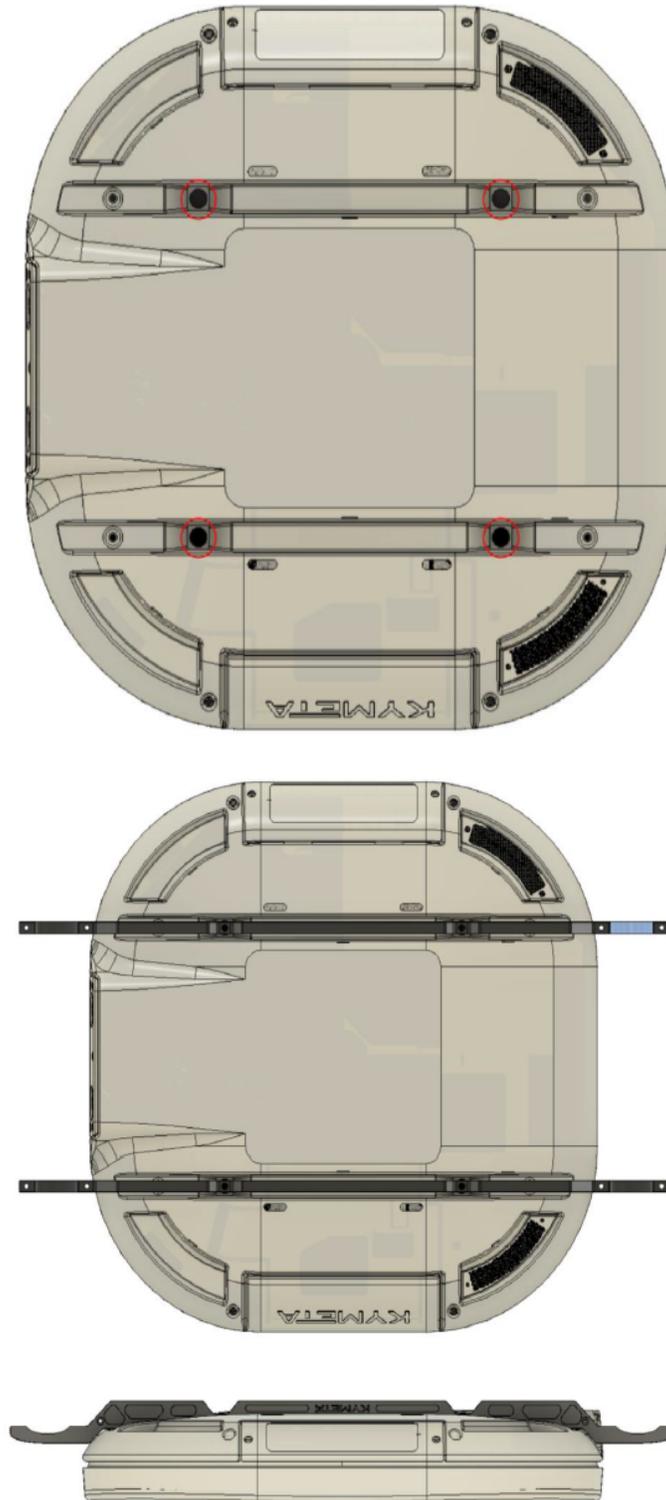
6 Assemble the u8 vehicle mount accessory

6.1 Install the cross bar

1. Install roof rack cross bars at desired longitudinal location per manufacturer's instructions. Ensure the cross bar spacing is approximately 1010 mm (39.76 in.) as measured from the center of the crossbars.
2. Verify the spacing by dry fitting rail component (Item A) to confirm crossbar is centered on rubber mounting pads.
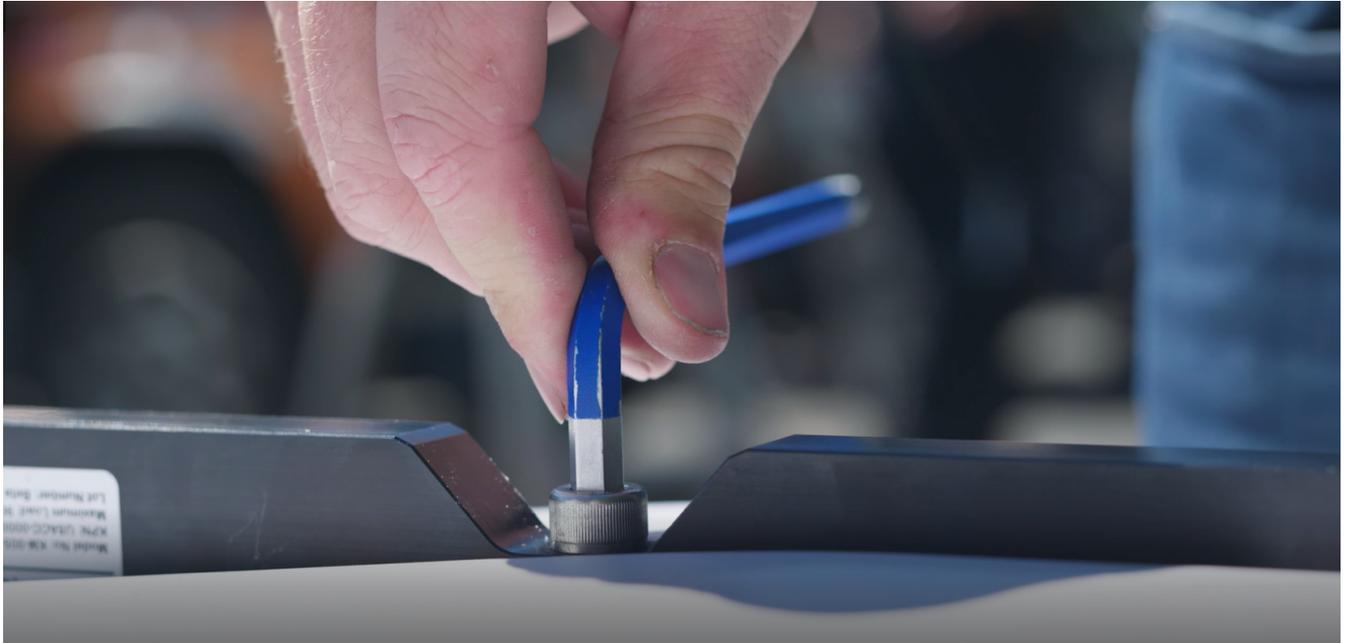

6.2 Integrate the u8

1. Clear **a flat surface**: ensure it is clean with no objects or debris that may damage the u8.
2. Unpack the u8. To open the case, lay it flat on an open area where it's easy for one person to stand on each side near the clean assembly surface.
3. With two people (one person on each side), lift the u8 out of the case, keeping the u8 parallel to the floor, and lay it face down on the clean flat surface. Place a piece of foam, fabric, or non-abrasive material on the clean flat surface to prevent marks or damage to the face of the antenna.
4. Place the rails so that mounting bolt locations align with antenna fastener points and that the Kymeta branding is visible from the outside.

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5. Install the fasteners. Use the included four M10 × 70 socket head cap screws (item F), an 8 mm hex key, and blue Loctite to attach the rails. Torque fasteners to 40 N-m (29.5 ft. -lb.).

6.3   Install the u8 terminal vehicle power kit

Install the Kymeta™ u8 terminal vehicle power kit (U8ACC-00001-0) as described in *700-00111-000 Kymeta u8 terminal vehicle power kit installation instructions*. The kit includes wiring to cleanly and efficiently tie antenna power-on to vehicle power-on.

6.4   Mount the assembly on the roof

1. Place the rail/antenna assembly on roof rack crossbars. Make sure the Kymeta logo is front-facing and the fans are facing towards the rear of the car. To avoid injury, use two people to mount the rail/antenna assembly.

2. Make required adjustments by lifting up individual corners and placing tearoff cardboard slider pads (item H) between the rails and the crossbars to minimize friction.

3. Ensure the rail/antenna assembly is roughly centered on laterally on the cross bars. Once roof rack is in desired lateral location, remove the tear off cardboard pads individually.

6.5   Install the clamps

1. Place eight M8 nylock nuts (item D) into the corresponding pockets on rails, ensuring the nylon patch is facing up.

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2. Using a 6 mm hex key, fasten four clamp bottoms (item B) to the rails using two M8 x 35 socket head cap screws (item E) per clamp. Tighten each screw a few turns at a time to ensure clamp bottom remains relatively level and the spacing between the clamp bottoms and rails is even front to back. Torque to 26 N-m (19.2 ft.-lb.).

6.6 Install the padlock

1. Remove the padlock (item G) from the package and unlock the shackle using included key. Remove the key prior to installing the lock.

2. Put EPDM foam strip onto the clamp bottom.
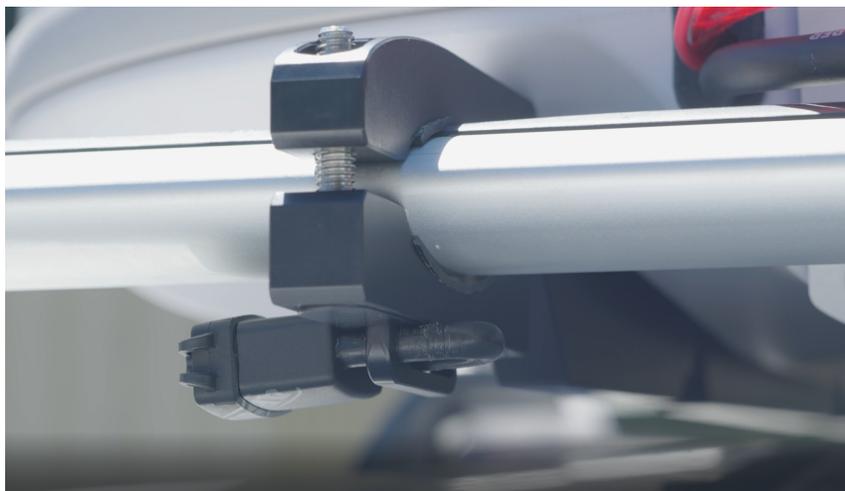3. Place bolt cover (item C) over the locking lug on the clamp bottom that includes the lock foam.

4. Insert the padlock shackles through the wide slot.

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5. Tilt the padlock to slide to the left side of shackle into the hole as shown.

6. Lock the shackle and plug the keyhole with the included cover.

7   Replace the padlock

Kymeta is not responsible for a lost key or a malfunctioning padlock replacement. In the event of a lost key or malfunctioning padlock, it is your responsibility to remove and replace the padlock in a safe matter.

The included padlock is an Abus model 70/35. The locking system is designed to be compatible with the Abus model 70/35, Abus 751B/40, or other padlocks of the following dimensions below. The system has only been tested for compatibility with the listed Abus padlocks. Other padlocks of the dimensions below may not be compatible due to other geometry issues.

Dimension	Value (mm)	Value (in.)
Shackle diameter	6.35	0.25
Horizontal clearance	10.4 - 31.9	0.41 - 1.25

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8 Contact support

Contact Kymeta customer support at support@kymetacorp.com or **1-855-525-6638** (Monday to Friday, 07:00-18:00 PT (UTC-8)).

9 Revision history

Revision	Changes
01	Initial release.
A	Initial Production version.

10 Copyright and trademark information

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