



KyWay™ Terminal Mounting Design Package

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1 Introduction

Kymeta mTenna^{u7} antenna subsystem modules (ASMs) and Kymeta KyWay™ terminals have a straightforward mounting configuration designed to work with a wide range of implementations. This document provides a brief guide to the materials in the **mounting reference kit**.

This document and the related materials provide information on Kymeta products, prototype ("Prototype Designs"), and previous mounting designs for mTenna^{u7} ASM and KyWay™ terminal assemblies. These Prototype Designs are provided on a restricted use basis. The items described in this document may be used in a variety of possible application environments according to the manufacturer's recommended installation practices and warranty conditions.

In some cases, Prototype Designs may have been abandoned for reliability, durability, aesthetic or other considerations. As such, variations and adjustments needed for installation should be reviewed carefully, and all implementations should be completely and thoroughly tested for the environmental conditions. Be sure to arrange installation in such a way that any possible malfunction of the products, prototypes, or related materials will not result in damage to equipment or personal injury.

Kymeta makes no express or implied warranties and disclaims all liability, loss, or damages of any kind relating to the use of the Prototype Designs. Use of the Prototype Designs signifies acceptance of these terms and agreement to hold Kymeta harmless and indemnify Kymeta from third party claims arising from the Prototype Designs.

2 Key points

The mTenna^{u7} ASM has four standard mounting points that can be used to mount an ASM on any structure appropriate for size and weight.

KyWay terminal ODU and mTenna^{u7} ASMs are rated to IP66 and are designed for outdoor conditions and have been tested for shock, vibe, reliability, and other factors. Refer to *Kymeta™ mTenna^{u7} ASM Data Sheet* and *Kymeta™ KyWay™ Terminal Data Sheet* for details.

KyWay terminal IDU components should be in a climate-controlled environment. The maximum distance between the ODU and the mTenna I/O is 50 feet.

KyWay terminal includes an outdoor mounting hardware sub-assembly designed to support the complete RF chain. The ODU mounting plate also has four mounting points for installation.

3 ODU assembly

The KyWay terminal ODU mounting assembly ships with KyWay terminals. It provides the basic mounting structure for a terminal. Contact a Kymeta sales representative for information regarding product support and information about field replaceable units.

Drawings and CAD files are provided in this package to enable adapting custom mounting solutions. Kymeta recommends closely reviewing the *KyWay™ Terminal Installation Guide* and *KyWay™ Terminal Safety and Handling Guide* for mounting and safety considerations. The installation guide also contains additional drawings and measurements for indoor components and cables.

4 Materials overview

The tables below list materials to assist implementation design. REFERENCE mTENNAU7 ASM ODU MOUNTING and CUSTOMER REFERENCE mTENNAU7 ASM ODU MOUNTING HARDWARE folders contain drawings and CAD files with details on mTenna^{u7} ASMs and KyWay terminal mounting hardware dimensions. Kymeta recommends closely reviewing the *KyWay™ Terminal Installation Guide* and *Kymeta Safety and Handling Guide* for mounting and safety considerations.

4.1 REFERENCE mTENNAU7 ASM ODU MOUNTING folder

Item	File types	Description
REFERENCE mTENNAU7 ASM ODU MOUNTING folder	.pdf, .STEP files	Drawings and CAD files with details on mTenna ^{u7} ASMs and KyWay terminal mounting hardware dimensions.
700-00019-000-rev08 Kymeta KyWay terminal installation guide	.pdf	Detailed installation guide with installation guidelines, pictures, and step-by-step instructions. Includes IDU and cable drawings.
700-00008-001-revD Kymeta Safety and Handling Guide	.pdf	Safety overview with RF, electrical, and other installation considerations.
700-00036-000-rev01 Kymeta mTenna ^{u7} ASM product sheet	.pdf	Product details for the mTenna ^{u7} antenna subsystem module (ASM).
700-00037-000-rev01 Kymeta KyWay Terminal product sheet	.pdf	Product details for the KyWay terminal.
700-00009-001-revA KyWay Terminal Quick Start Guide	.pdf	Quick start instructions shipped with terminals to enable rapid setup and deploy.
"mount examples" folder	Folder with .pdf, .STEP files, image files.	Collection of prototype and trial mounts Kymeta has used previously.

4.2 CUSTOMER REFERENCE mTENNAU7 ASM ODU MOUNTING HARDWARE folder

Item	File types	Description
CUSTOMER REFERENCE mTENNAU7 ASM ODU MOUNTING HARDWARE	.zip	Drawings and CAD files with details on mTenna ^{u7} antennas and KyWay terminal mounting hardware dimensions.
750-00010-000	.pdf, .STEP	mTenna ^{u7} ASM ODU mounting hardware
750-00010-001	.pdf, .STEP	BUC support tab
750-00010-002	.pdf, .STEP	LNB support tab
750-00010-003	.pdf, .STEP	BUC side support
750-00010-004	.pdf, .STEP	BUC mounting support
750-00010-005	.pdf, .STEP	Mounting plate
750-00010-006	.pdf, .STEP	Mounting plate foam to ASM
811-00001-000	.pdf, .STEP	Assembly ODU

5 Revision history

Revision	Change
01	Initial document.
02	Changed the document category from confidential to public.
03	Updated the doc structure. Changed the component name (see 750-00012-000).

6 Legal information

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All other trademarks are the property of their respective owners.

Appendix A. Acronyms and terms

Item	File types
ODU	Outdoor unit
ASM	Antenna subsystem module
LoDU	Low-profile outdoor unit
UMK	Universal mounting kit
IDU	Indoor unit

Appendix B. Mounting options and packages

During development, Kymeta created different mounting options to be used for testing, field trials, and other purposes. To facilitate customers with installation and design, Kymeta makes some designs and drawings available to customers, including designs abandoned or discontinued. Although Kymeta fabricates some of these items for short-term use, many partners have specific implementations or modifications needed.

The items Kymeta makes available are for trial use only. They have been produced to facilitate with early field trials and may not have been subjected to reliability or other testing. Although Kymeta fabricates some of these items for short-term use, many partners have specific implementations or modifications needed.

Universal mounting kit (UMK) components are available as off-the-shelf parts, easy to cut and adapt for any type of installation. UMKs are available in three configurations: 18 in. standard, extended standard, and "H-formation ." The extended version uses longer rails for attaching to the installation mounting structure.

For our demonstrations, Kymeta has used commercially available Moog Hercules tripods with a custom-made mounting plate attachment.

The low-profile outdoor unit conversion kit ("LoDU conversion kit") is a quick, temporary mounting structure for car racks or other installation structures requiring a lower profile.

Long stand-off: This item has been discontinued. Please refer to Technical Bulletin #740-00006-000.

All temporary mounting options shown in the table below are available. Contact your Kymeta representative for details. Reference drawings and files are available upon request.

Mounting Option	Status	Folder	KPN	Stationary	Maritime	Land Mobile
UMK Standard formation	For trial use only	Universal Mounting Kit	870-00033	YES	YES	YES
UMK Extended standard formation (36", 40", or other)	For trial use only	Universal Mounting Kit	870-00034 (36" mount) 870-00034 (40" mount)	YES	YES	YES
UMK H-formation	For trial use only	Universal Mounting Kit	870-00035	YES		
Car rack low-profile mount	For trial use only	Car Rack Conversion Interface Control Drawing	870-00036	YES		YES
Moog Hercules tripod mounting kit	Not available for individual sale	Moog and custom components	820-00392-000	YES		
Long Stand-off posts	Discontinued stand-offs Refer to Technical Bulletin #740-00006-000.	Discontinued				