



KyWay™ Terminal Quick Start Guide

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Revision A

07 February 2018

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1 Introduction

Thank you for choosing the Kymeta KyWay™ terminal and welcome to the new era of satellite connectivity.

For your safety and ease of use, please read this *Kymeta KyWay Terminal Quick Start Guide* and the *Kymeta KyWay Terminal Safety and Handling Guide* in their entirety before beginning assembly.

To ensure the KyWay terminal is installed for maximum performance in each deployed platform, only Kymeta-certified installers should install and commission the unit.

2 Specification

AC power	110 – 240 VAC
AC line frequency	50/60 Hz
Power	8 W BUC: peak: 500 W typical: 300 W 16 W BUC: peak: 600 W typical: 400 W
ODU dimensions	82.3 cm × 82.3 cm × 16.5 cm (32.4 in. × 32.4 in. × 6.4 in.)
mTenna™ I/O dimensions	W 48.26 cm × D 22.21 cm × H 4.37 cm (W 19 in. × D 8.745 in. × H 1.72 in.)
iDirect X7 modem dimensions	W 44.5 cm × D 30.5 cm × H 4.37 cm (W 17.5 in. × D 12 in. × H 1.72 in.)
Terminal weight	27.2 kg (59.8 lb.)
ODU weight	21.3 kg (46.9 lb.)
IDU weight	5.9 kg (12.9 lb.)

3 Package contents

Box 1: KyWay terminal ODU

- (1) ASM with the attached RF chain (BUC, diplexer, LNB)
- (6) cable ties
- (1) KyWay™ Terminal Quick Start Guide
- (1) KyWay™ Terminal Safety and Handling Guide
- (1) KyWay™ Terminal Limited Warranty

Box 2: mTenna I/O

- (1) mTenna I/O
- (1) power cable
- (8) screws and nuts

Box 3: Modem

- (1) modem
- (1) power cable
- (8) screws and nuts
- (1) Ethernet cable
- (2) N-type to F-type adapter

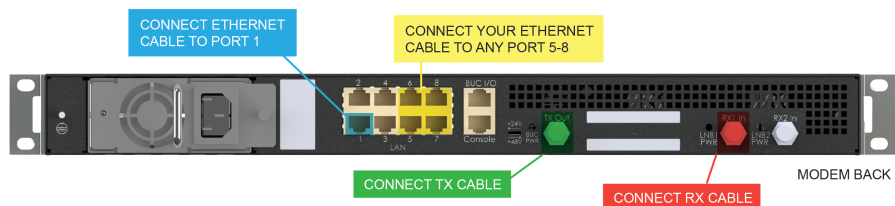
Box 4: ODU Interface cable (accessory)

- (1) ODU interface cable (three lengths available: 3.66 m, 7.62 m, 15.24 m)

Box 5: RF cables (accessory)

- (1) Rx cable (three lengths available: 3.66 m, 7.62 m, 15.24 m)
- (1) Tx cable (three lengths available: 3.66 m, 7.62 m, 15.24 m)

4 Indoor unit components and cables



ODU INTERFACE CABLE



Rx CABLE



Tx CABLE

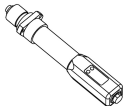
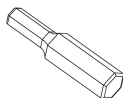
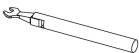


ETHERNET CABLE

NOTE: Drawings are not to scale.

5 Tools required

Note that installation tools are not provided with the product.

Tool diagram	Tool description
	Torque screwdriver 0.2 N-m (2 in.-lb.) minimum torque rating
	Hex bit 4 mm for the mTenna I/O and the modem
	Break-over torque wrench for N-type connectors 0.9 N-m (8.1 in.-lb.) torque rating

6 Request commissioning

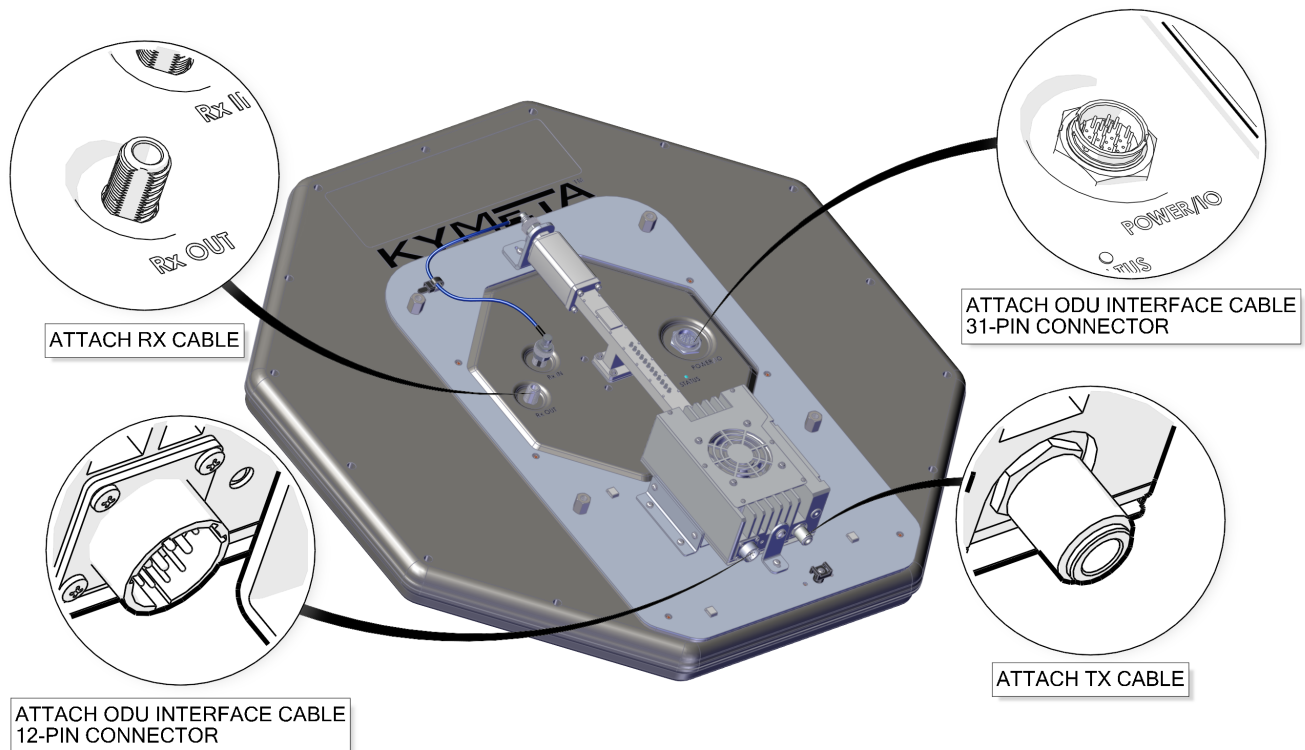
Congratulations on your purchase of the Kymeta™ KyWay™ terminal. Contact the KĀLO™ support team to schedule your commissioning window by sending an email to **support@kalo.net**.

Have the following information ready for your commissioning:

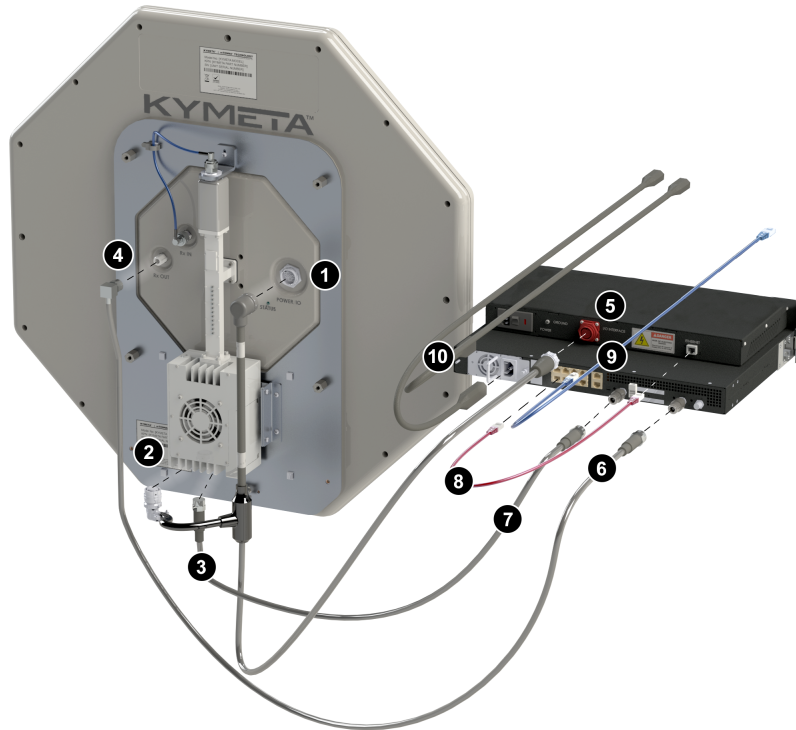
- » ASM serial number
- » Modem serial number
- » Purchase date
- » Confirmation of the service plan choice

7 Prepare the outdoor unit (ODU)

1. Make sure you have a clear, clean, flat surface for assembling the Kymeta KyWay terminal.
2. Open the KyWay terminal ODU box. With two people, lift the ODU out of the case. **Do not lift the ODU by any RF component (LNB, diplexer, or BUC)** as this may damage sensitive components and potentially void your warranty. Keep the ODU parallel to the floor and lay it on the clean flat surface (ASM logo side down).
3. Refer to the **Connect the cables** section for further instructions.




8 Connect the cables




Avoid confusing the Rx and Tx cables. Before installing the cables, apply colored tape to each end of the cable, or install one cable at a time. The recommended convention is **RED** for the **Tx cable** and **BLUE** for the **Rx cable**.

1. Connect the ODU interface cable 31-pin connector to the back of the ASM by carefully aligning the connector keys on the inside bulk and on the inside of the outer ring. The connector should seat firmly without forcing it. You may feel a slight click as the connector reaches the end of travel.
2. Connect the ODU interface cable 12-pin Amphenol connector to the 12-pin receptacle on the BUC.
3. Connect the Tx cable (**RED**) to the BUC (use the torque wrench).
4. Connect the Rx cable (**BLUE**) to the ASM Rx OUT port (use the torque wrench).
5. Connect the ODU interface cable 18-pin connector to the mTenna I/O.
6. Connect the Rx cable (**BLUE**) to the modem primary Rx IN port (Rx 1) (finger-tighten). **Do not use the Rx 2 port.**
7. Connect the Tx cable (**RED**) to the Tx OUT of the modem (finger-tighten).
8. Connect the Ethernet cable to the mTenna I/O and port 1 on the modem.
9. (optional) Connect the customer Ethernet cable to the modem (port 5-8 for DHCP).
10. Connect one power cable to the mTenna I/O and another one to the modem.

 Use cable ties to clean up loose cables.

9 Power on the KyWay™ terminal

1. Check that all cables are connected, as shown in the **Connect the cables** section.
2. Power on the mTenna I/O and confirm that the power light on the front is solid green.
3. Confirm that the light on the back of the ASM is solid green.
4. Power on the modem and confirm that the Power, Status, and Temp lights on the front are solid green.
5. Wait 90 seconds and then verify that the Ethernet port 1 link light on the back side of the modem is blinking.


 To access the ASM prior to commissioning, refer to the *Kymeta mTenna^{u7} Antenna Subsystem Module Software User Guide*.

10 Access the ASM

Kymeta supports Chrome and Firefox browsers.

To access the mTenna^{u7} ASM web-based user interface, do the following:

1. Connect an available Ethernet port on your workstation to the Ethernet port 2 on the modem.
2. Configure the TCP/IPv4 properties of the Ethernet port to use static IP address/subnet mask of **192.168.44.3 / 255.255.255.0**.
3. In your browser, go to **http://192.168.44.2**.
4. In the **Authentication Required** window, provide the following credentials: username: **admin**, password: **2Cfg^Ant**.

 Refer to the *KyWay Terminal Troubleshooting Guide*, section "Cannot access the web-based UI" if you cannot access the mTenna^{u7} ASM web-based user interface.

The ASM automatically reboots every 24 hours. To set the auto-reboot time based on your local timezone, go to the **Settings** page > **System** window, and then update the time in the **Auto Reboot Time**. Click **Apply**.

11 Access the modem

Do not make changes to your modem until you talk to a KĀLO service representative. See the **Request commissioning** section for details.

12 Documentation

To obtain the most current version of the KyWay terminal documentation, contact your Kymeta representative.

13 CE declaration of conformity

This equipment conforms with the essential requirements and other relevant provisions of Radio Equipment Directive (2014/53/EU).

14 FCC notifications

This device complies with Part 15B of the FCC rules. Operation is subject to the following conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

This product complies with the requirements set forth in CFR 47 Section 1.1307 addressing RF Exposure from radio frequency devices as defined in Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields.

This product complies with EN 50835 for RF exposure.

The product is a transmit and receive satellite terminal; the user must comply with all applicable local, national, and international laws and regulations regarding the installation and use of this product.

15 Legal disclaimer

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16 Contact information

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17 Revision history

Revision	Change	Date
A	Initial document.	7 February 2018