



Kymeta Hawk™ u8 LEO Terminal User Manual

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1 Introduction

This document contains important information on owning and operating the commercial Hawk™ u8 LEO user terminals, referred to as “UT” further in this document. The Hawk u8 LEO UT comes in the following configurations:

- » Hawk u8 OneWeb (U8922-30313-0)
- » Hawk u8 OneWeb GO (U8922-30314-0)

2 Hawk u8 LEO product family description

The core component of every UT is the Kymeta u8 antenna. The u8 antenna includes a full duplex aperture, control electronics, mechanical enclosure system, and software. Key features of the u8 antenna include:

- » Automatic solid-state electronic RF beam steering
- » Automatic electronic polarization selection and angle control
- » Automatic satellite acquisition and tracking
- » Built-in location, altitude, heading, and motion sensors
- » Ultra-hydrophobic radome and IP66 ingress protection rated
- » Embedded OneWeb satellite modem
- » Application programming interface for machine-to-machine control

2.1 Key features

Regardless of your UT configuration, all Hawk u8 UTs have the following key features:

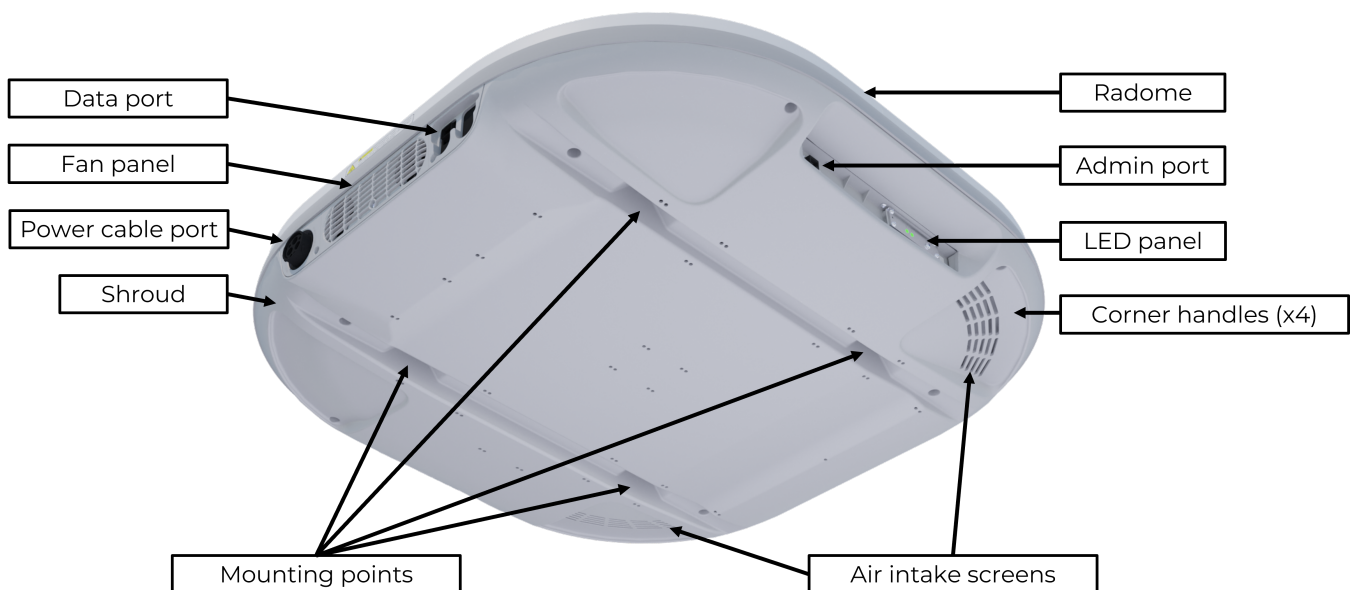


Figure 1: Hawk u8 key features

2.1.1 LED panel

The figure below illustrates the LED panel of the LEO UT.

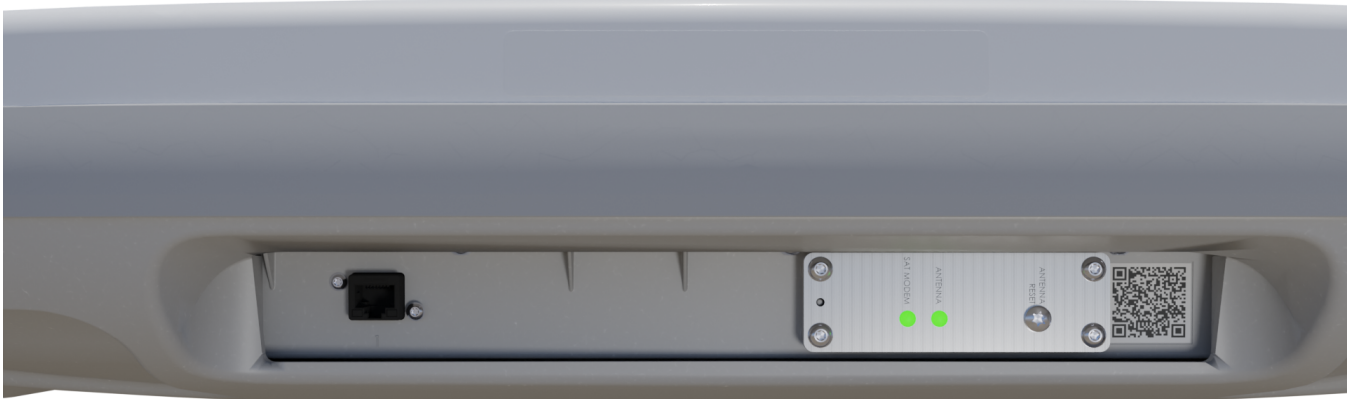


Figure 2: Hawk u8 LEO LED panel

2.1.2 Under the shroud

The diagram below shows the core UT components residing under the UT shroud.

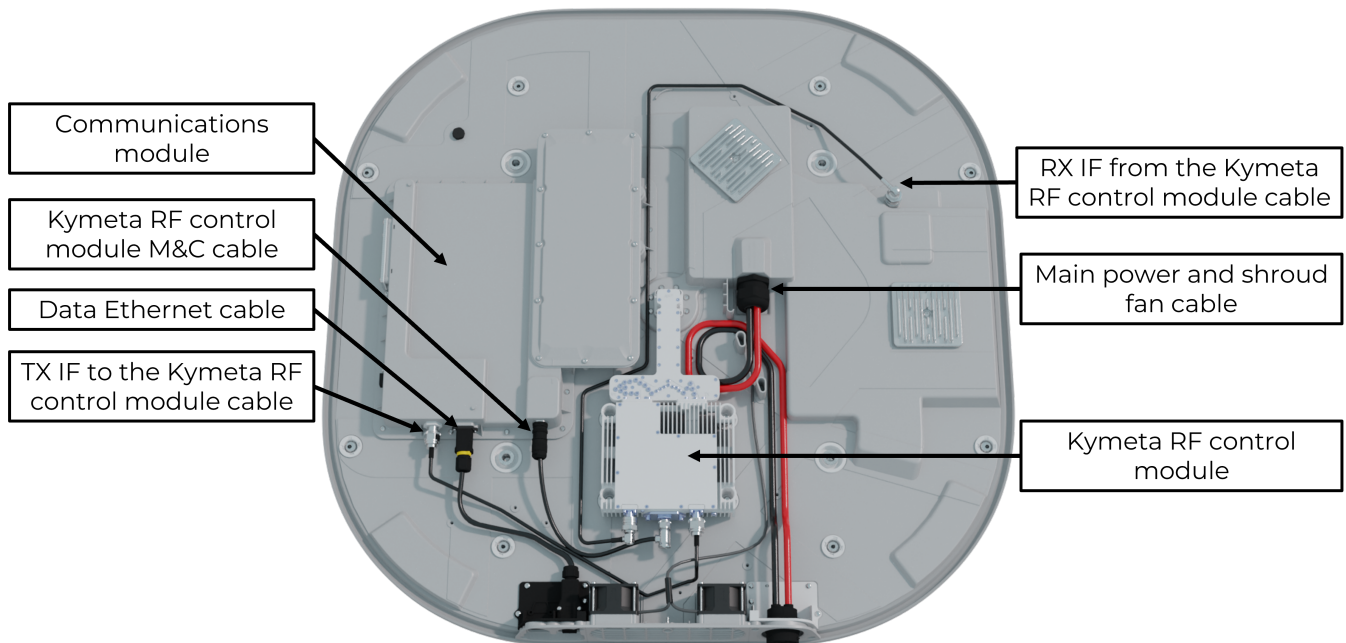


Figure 3: Hawk u8 LEO - under the shroud

2.2 GO configuration

The u8 GO UT configuration is easily transportable and can support communication while in the case, on the ground, or mounted on a vehicle for easy deployment in multiple use cases. The multi-function hardened case is tested to military and international standards and comes with hardened tie down points.

The u8 GO configurations are designed for use in the case or mounted on a vehicle (DC power option may be required).



Figure 4: Hawk u8 GO UT

The GO case has four anchor tie-down points, two per side, on the base. The D-ring inner diameter is 2.5 cm (1 in.).



Figure 5: GO case anchor tie-down points

The GO case and terminal can be left outside in all weather. The GO case has drain holes in the base of the case to allow water egress, the terminal is IP66 rated, the AC-to-DC power supply is IP67 rated, the Admin port is IP66 rated, and the Data port connection is IP67 rated when the included yellow Ethernet cable with the Harting connector is installed.

2.3 Weights and dimensions

Hawk u8 configuration	Weight	Size
Hawk u8 OneWeb (U8922-30313-0)	30.1 kg 66 lb.	L 89.9 cm × W 89.9 cm × H 14 cm L 35.4 in. × W 35.4 in. × H 5.5 in.
Hawk u8 OneWeb GO (U8922-30314-0)	72.8 kg 160.5 lb.	L 111 cm × W 111 cm × H 38 cm L 43.7 in. × W 43.7 in. × H 14.96 in.

The picture below shows the UT dimensions and the mounting points.

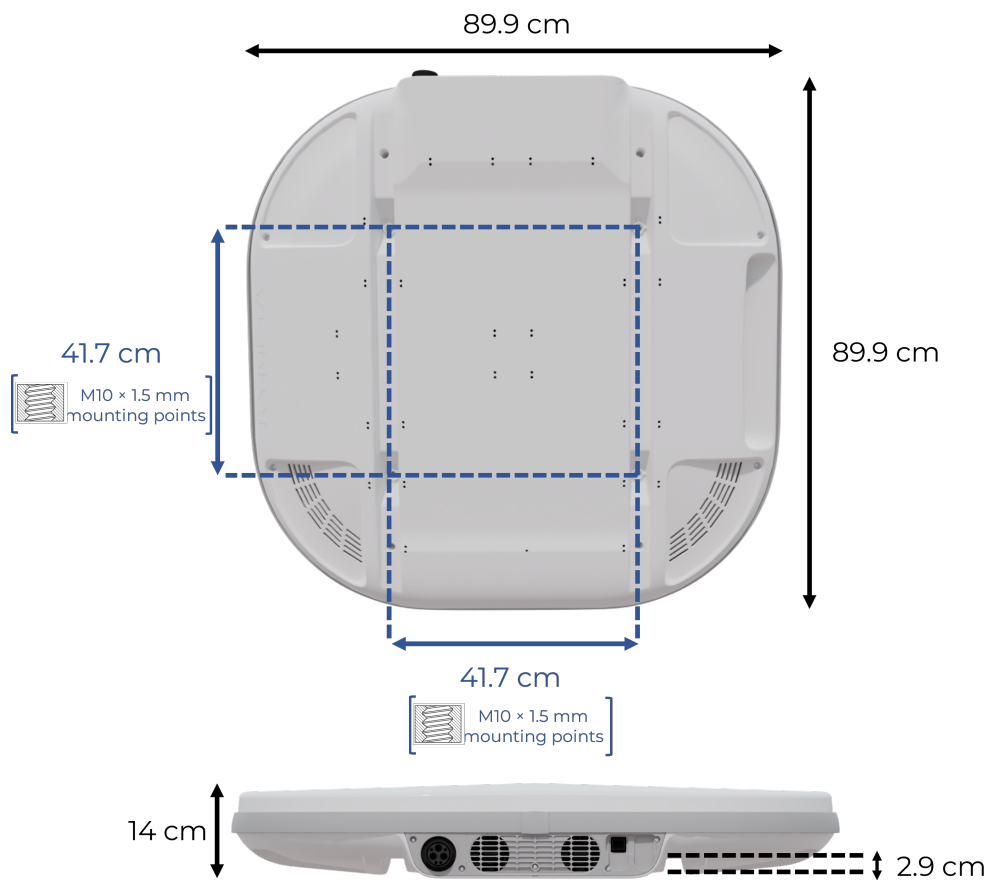


Figure 6: Hawk u8 dimensions

The picture below shows the u8 GO UT dimensions.

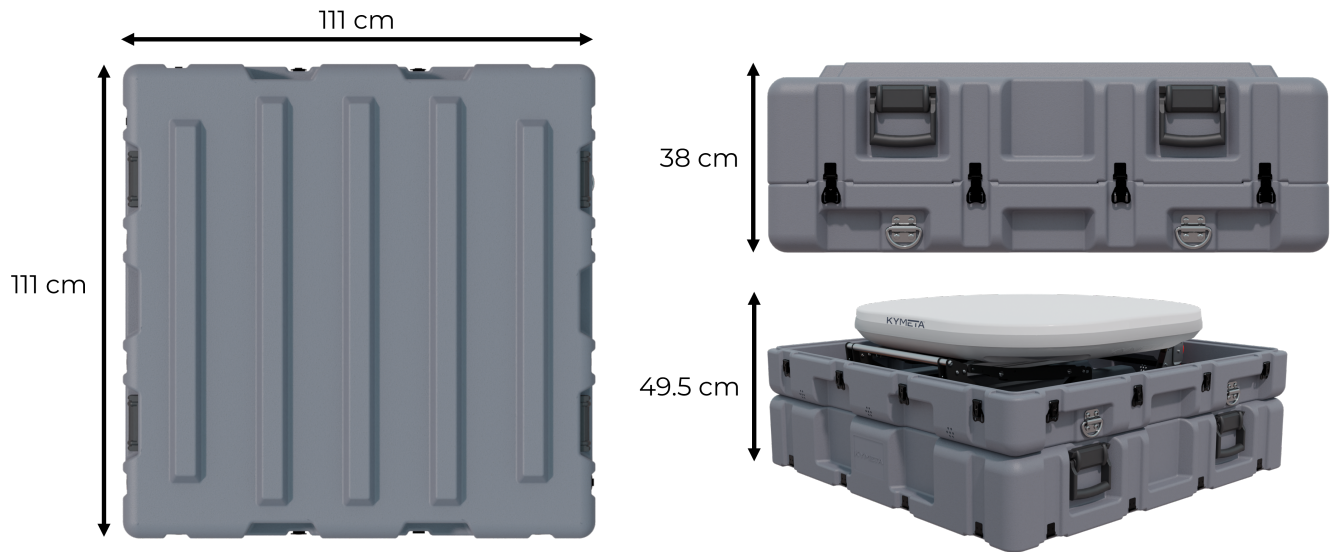


Figure 7: Hawk u8 GO UT dimensions

2.4 QR code

UTs include a QR code on the antenna communications module next to the LED status panel to show the as-built configuration of the system. Use the URL in the QR code to download the Kymeta™ Access application and easily configure your setup.

The following is an example of the information included in the QR code:

```
https://app.kymeta.io/  
KYMETA HAWK U8, OW  
PRODUCT_CODE: U8922-30313-0  
IP ADDRESS: 192.168.44.2  
TERMINAL SN: ACT000K999111555  
ANTENNA SN: ACH000K888222444  
MODEM SN: DDAV123456  
ONEWEB IMEI: 0355577744422220  
ONEWEB IMSI: 901600000001941  
HD1 SN: N/A  
HD1 IMEI:N/A
```

3 Safety and handling

This section describes general safety precautions that must be observed during all phases of operation, service, and repair of Kymeta UTs. Failure to comply with these precautions or with specific warnings elsewhere in this document violates safety standards of design, manufacture, and intended use of the equipment. Kymeta assumes no liability for the customer's failure to comply with these requirements.

Take special care when handling and installing the Kymeta products and Kymeta parts and accessories.

- » Use proper lifting technique and safety precautions for handling heavy or bulky objects; Kymeta recommends lifting the antenna with a minimum of two people.
- » Never apply paint or put stickers on the antenna.
- » Never put any metal over the front or in close proximity to the antenna, in order to avoid interference with the RF function.
- » Provide the specified voltage for all components. Stresses exceeding the absolute maximum rating of this device may damage the device, degrade performance, and affect device reliability.
- » Installation should include upstream over-current protection to limit supply current to less than 70 A.
- » Never lift the UT by any mounted RF components or cables, if the shroud is removed.

3.1 Electrostatic discharge (ESD) precautions

Do not open the antenna communications module or transceiver component housings. Doing any of these will void the warranty. Note that you may open or remove the shroud of the UT without violation of warranty.

Opening or removing the sealed antenna enclosure may cause exposure to high voltages, electric shock, and other hazards. In addition, electronic components contained within the enclosure are sensitive to ESD and could be damaged if ESD precautions are not observed.

3.2 Information for operators and maintenance technicians

Operators and maintenance technicians requiring access to the antenna and its immediate surroundings should be properly trained on the potential for exposure and the time-averaging considerations specified in [FCC OET Bulletin 65](#) or other relevant national regulations. To conduct maintenance requiring access to this region, technicians must either ensure the antenna is in non-transmit (receive-only) mode or switch off the terminal power. In any case where a u8 product is not in a secured area inaccessible to the public, install an indicative barrier a safe distance around the antenna.

3.3 RF energy exposure

Power density measurements in the 4.5 W terminal configuration show full compliance with the occupational/controlled MPE of 5 mW/cm². To avoid RF exposure when operating a u8 terminal in a 4.5 W configuration, do not place your head or other body parts near the top and sides of the satellite antenna when the system is operational. Maintain a distance of 60 cm (23.62 in.) or more from the face and within 200 cm (78.74 in.) from the center of the antenna. The figure below identifies the keep out region (gray cone) and safe region (the area outside the cone) for a 4.5 W configuration.

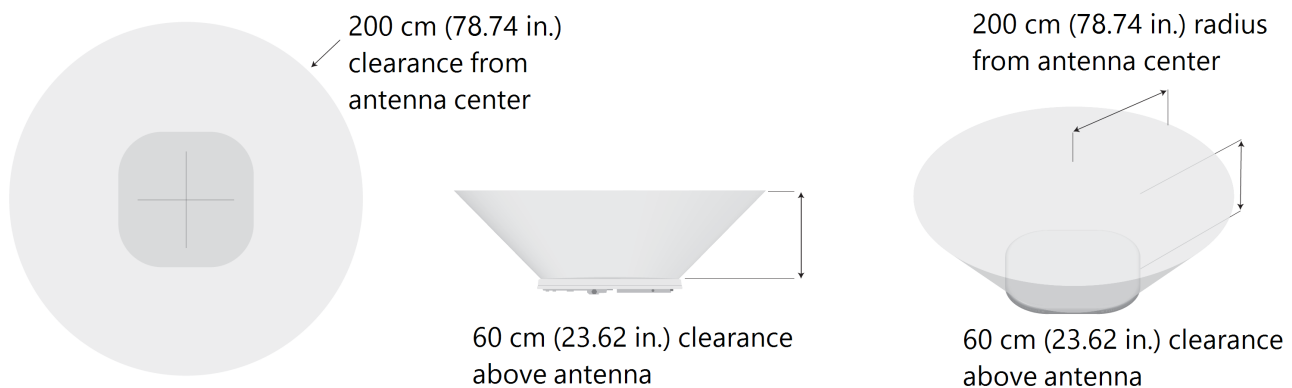


Figure 8: Keep out region (gray cone) and safe region (outside the gray cone) for a 4.5 W UT

In unusual cases where the UT is not in a secured area inaccessible to the public, customers should install an indicative barrier around the UT. The unlikely scenario of a member of the general public accessing the keep out region (see figure above) near the UT is deemed analogous to a condition of transient exposure that would exist for only a very short duration.

Kymeta has received authorization to operate the UT in the 4.5 W configuration (described herein) only. Any increase to input power may increase RF exposure and/or increase the size of the “keep out region” as described by the gray cone above. No modifications or changes to the input power should be made without the express consent of Kymeta and any such changes (if approved) should only be completed by trained professionals who have reviewed and understand the consequences of such changes, including but not limited to an understanding of FCC OET Bulletin 65. Any such changes may require additional testing or recertification/authorization from applicable regulatory agencies. Such testing/authorizations are the responsibility of the user and Kymeta assumes no liability where such changes are made to the UT.

3.4 Distance to other equipment

Radars and other high-power transmitters affect the performance of the u8 antenna installed within the beam path. To mitigate the risk of interference and damage, install the u8 product as far from the radar/transmitter as possible and outside of the beam width, typically $\pm 15^\circ$ elevation range, as shown in the image below:

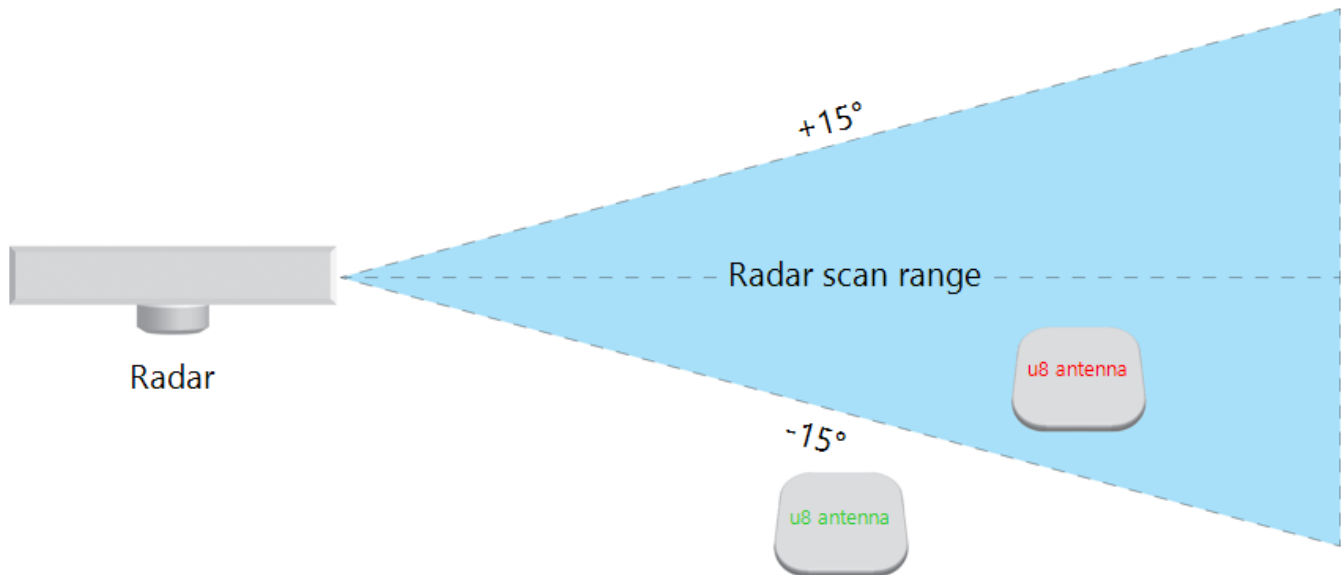


Figure 9: Install the UT outside the beam width of radar and other high-power transmitters

Evaluate the performance of the UT with all radar and transmitters operating normally before finalizing the installation.

4 UT installation requirements

Check the requirements listed below prior to setting up the UT.

4.1 Installation site requirements

- » During installation, avoid obstructing the air intake screens or drain holes.
- » Install the UT in an area above accessible range of personnel within the operational range of the antenna to reduce the risk of RF exposure.
- » Install the UT as far as possible from any equipment or materials that may cause magnetic interference for faster acquisition times.
- » The UT fans are critical to proper thermal function. When mounting the UT, keep at least a 305 mm (12 in.) open distance behind the fans and a minimum single exhaust zone vertically (up or down), horizontally (right or left), or some combination to minimize back pressure.
- » The UT must be installed level $\pm 5^\circ$. Ensure the UT has a clear line of sight to the sky. Clear line of sight to the sky means that the UT has no obstruction from broadside to 37° above the horizon in a 360° circle. If a clear line of sight is not available, move to a location where the line of sight is clear.

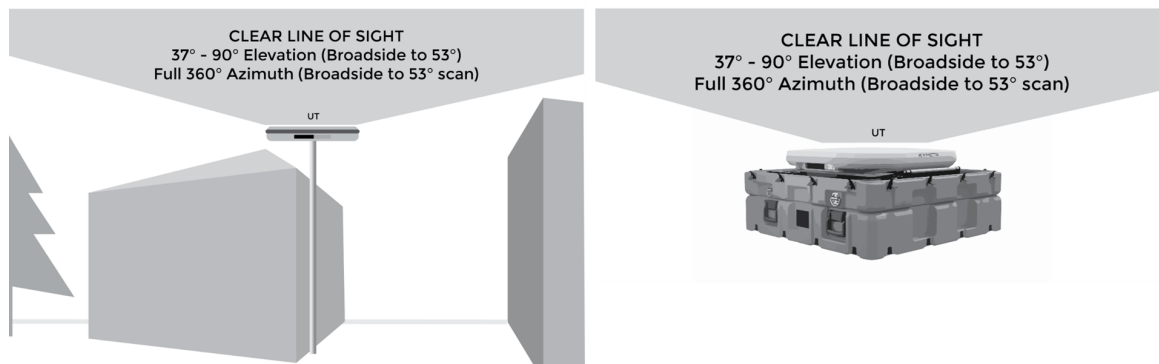


Figure 10: Stationary UT installation site example (left) and u8 GO installation site example (right)

4.2 Hardware requirements

- » Acquire all the hardware and tools required for UT installation, as they are not included with the product.
- » Setup of the UT requires a local device with an Ethernet port or a local device with Wi-Fi capabilities and a wireless managed router. Follow the instructions in [Section 5.3 Connect your data device to the UT](#).
- » If you ordered any accessory kit(s) to accompany your UT, refer to the instructions shipped with the kit(s).
- » The UT does not come with a mount. Before you unpack and set up the UT, ensure you have a mounting solution prepared. Refer to [Section 4.3 Mounting requirements](#) for more details.
- » The UT does not come with a power accessory. Refer to [Section 4.4 Electrical requirements](#) for details.

4.3 Mounting requirements

- » Prior to mounting, check that the UT is grounded and disconnected from the power source.
- » The UT has all cables routed out the rear next to the fans. Ensure when mounting the UT that this space isn't blocked and that no cables are kinked or pinched.
- » Ensure that the UT access panel is reachable after you have mounted the UT.
- » The UT fans are critical to proper thermal function. When mounting the UT, keep at least a 305 mm (12 in.) open distance behind the fans and a minimum single exhaust zone vertically (up or down), horizontally (right or left), or some combination to minimize back pressure.
- » Any mounting solution designed for the Hawk u8 UT must allow for lateral and vertical thermal expansion and contraction of the unit. Rigid constraint of the unit may result in permanent damage to the unit, including catastrophic failure, and voids the warranty of the UT. Kymeta recommends a minimum clearance of 1.5 cm (0.6 in.) of clearance from the UT edge to account for this thermal expansion.

To mount the UT, purchase one of the mounting kits offered by Kymeta or build your own mounting solution.

4.3.1 Mounting solution for mobile platforms

Kymeta recommends contacting an authorized auto shop to install the UT on your car. The u8 terminal accepts 12 V to 36 V DC maximum power and integrates with most platforms. Kymeta offers the following solutions for land-mobile installations:

- » u8 DC power kit (U8ACC-00001-0); depending on your installation specifics, follow *Kymeta u8 DC power kit installation instructions (700-00111-000)* provided with the kit.
- » u8 vehicle rack mount kit (U8ACC-00055-0); follow *Kymeta vehicle rack mount kit installation instructions (700-00214-000)* provided with the kit.
- » u8 terminal MRZR mount (U8ACC-00023-0); follow *Kymeta u8 terminal MRZR mount accessory kit installation instructions (700-00169-000)* provided with the kit.

4.3.2 Mounting solution for stationary platforms

Kymeta offers the following solutions for stationary installations:

- » universal mounting plate (U8ACC-00004-0); follow *Universal mounting plate installation instructions (700-00143-000)* provided with the kit.
- » fixed mount kit (U8ACC-00054-0); follow *Kymeta u8 fixed mount kit installation instructions (700-00247-000)* provided with the kit.

If you need support in assessing your mounting configuration, contact Kymeta customer support at support@kymetacorp.com for additional information.

4.4 Electrical requirements

 Practice electrical safety measures. Follow local, national, and other regulations with respect to these devices.

- » The UT is configured by default to use a DC power source and accepts 12 VDC to 36 VDC power. To use an AC power source for the UT, purchase and install the AC-to-DC power kit (U8ACC-00044-0). Refer to *Kymeta AC-to-DC converter kit installation instructions (700-00187-000)* for more information.
 - » The AC-to-DC converter requires a 120 - 240 VAC, 10 A (minimum) circuit, max power draw of the UT is 510 W with heaters enabled.
 - » If you are plugging the UT into an outdoor receptacle, follow local electrical code for water ingress protection and safety requirements.
 - » The maximum distance from the AC receptacle to the UT is 20 feet (without extension cord, maximum extension cord length is dictated by local electrical code).
- » To install the UT on a vehicle, purchase the u8 DC power kit (U8ACC-00001-0). Depending on your installation specifics, follow *Kymeta u8 DC power kit installation instructions (700-00111-000)* provided with the kit. Kymeta recommends contacting an authorized auto shop to install the u8 terminal on your car.

5 UT setup instructions

The following instructions describe how to install and set up your Hawk u8 LEO UT.

To set up your UT, use the Kymeta™ Access app.

1. Download the Kymeta™ Access app from the [Google Play](#), [Apple App Store](#), or the [Microsoft Store](#).



2. Follow the instructions in the Access app to set up your UT.

If you can't use the app, proceed to section [Section 5.1 Open the box](#).

5.1 Open the box

If your UT is in a GO configuration, proceed to [Section 5.1.1 Open the GO case \(GO configuration only\)](#).

1. Lay the UT box on an open area so one person can stand on each side near your mounting site.
2. Open the box and place the removed top foam on the ground as a working surface. With two people (one person on each side), using the corner handles, lift the UT out of the box and place it on the foam.

5.1.1 Open the GO case (GO configuration only)

1. Place the UT on a flat and level surface with the D-rings closest to the ground and the handles up.



Figure 11: Closed GO UT

2. Open the latches by twisting the spring-loaded tabs counterclockwise until they disengage.



Figure 12: GO UT with disengaged latch

3. Remove the lid of the case and place the lid in the desired final install location with the ridges up. Using the lid as a platform, place the base of the UT on top of the lid. Ensure the keying ridges align with the keying grooves in the lower part of the case.



Figure 13: UT with the GO case lid used as a platform

4. Unwind the power cable with the NEMA 5-15 plug from the GO case.



NEMA 5-15P 120 VAC power cable

Figure 14: UT power cable with NEMA 5-15 plug

5.2 Power on the UT

⚠ Practice electrical safety measures. Follow local, national, and other regulations with respect to these devices.

If your UT is in a GO configuration, proceed to [Section 5.2.1 Plug in the power supply \(GO configuration only\)](#).

- » To power the UT with the u8 DC power kit (U8ACC-00001-0), refer to *Kymeta u8 DC power kit installation instructions (700-00111-000)* included in the kit.
- » To power the UT with the AC-to-DC power kit (U8ACC-00044-0), refer to *Kymeta AC-to-DC converter kit installation instructions (700-00187-000)* included in the kit.

Once you power on the UT, you may hear the shroud fans power up and then reduce speed.

5.2.1 Plug in the power supply (GO configuration only)

Plug the NEMA 5-15 plug on the power supply into the available NEMA 5-15 receptacle. If installed correctly, the LED status indicators on the side of the UT will illuminate and the fans will power up and then reduce speed.

See [Appendix B. Network interfaces](#) for LED status indicator definition tables.

5.3 Connect your data device to the UT

5.3.1 Set up the UT with a laptop and web interface

1. **UT:** Connect the included 25-foot yellow Harting IP67 Ethernet cable into port 2 located on the side of the UT near the fans. Plug your data device (laptop or network switch) into the other end of the Ethernet cable. See [Appendix A. Hawk u8 LEO UT network diagram](#) for a network diagram.



Figure 15: Harting IP67 Ethernet cable connecting to port 2 on the UT

GO UT: Connect the included 25-foot (7.3 m) yellow Harting IP67 Ethernet cable into the Data port shown below. Plug your data device (laptop or network switch) into the other end of the Ethernet cable.



Figure 16: *Harding IP67 Ethernet cable connected to the Data port on the GO UT*

2. Set your data device IPv4 address to DHCP. The data device should receive an IPv4 address in the range of 192.168.100.110–192.168.100.128. If not, ensure the data device is connected to UT data port and IPv4 is configured for DHCP.

5.4 Set up the UT OneWeb satellite service module

The UT needs an up-to-date map of OneWeb LEO satellites. This information is stored in an ephemeris file.

1. Before bringing your terminal online, navigate to <https://ephemeris.oneweb.net/ltef/> and download the **ltef.csv** ephemeris file.
2. Navigate to 192.168.100.1 to access the SSM user interface.
3. Navigate to the **Install** page.

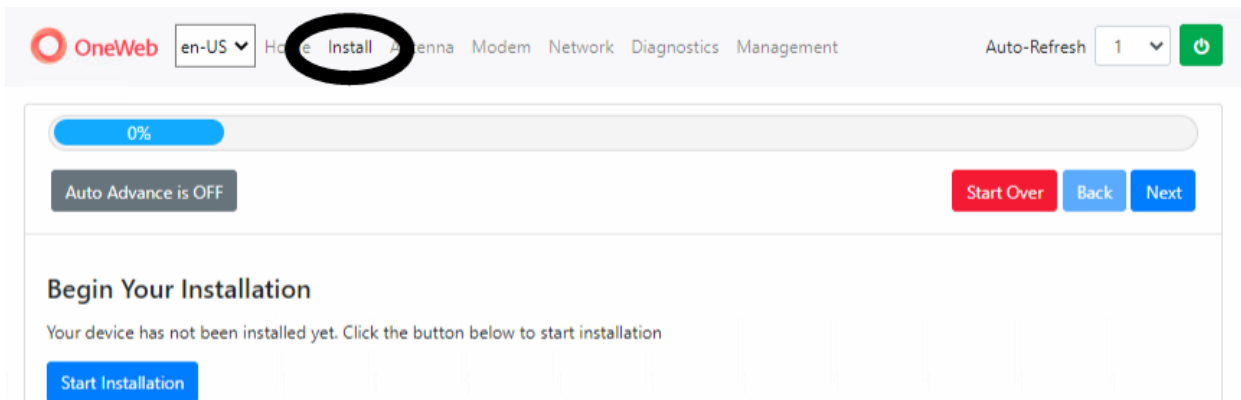


Figure 17: *SSM install wizard*

- Click **Next** until you see the option to upload ephemeris file.

Figure 18: Upload ephemeris file window

- Load the ephemeris file and click **Next**. The UT is now ready to access the OneWeb network.
- Optional:** Set the **Max Power Limit** of the UT. Reducing the maximum power draw will limit the amount of power consumed by the UT's internal heaters and may affect performance in extremely cold environments.

Figure 19: Max power limit setup window

5.5 Set the Auto-Refresh rate

- Navigate to 192.168.100.1 to access the SSM user interface.
- Set the **Auto-Refresh** value to **1**.

Figure 20: SSM auto-refresh setting

5.6 Check the network status

1. Navigate to 192.168.100.1 to access the SSM user interface.
2. Check the APN status of the UT. A UT has network connectivity if **APN 0** and **APN 1** are **Connected**.

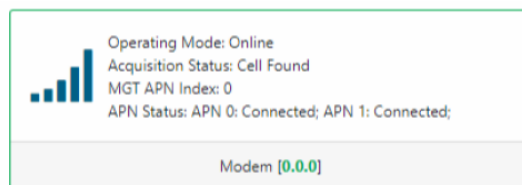


Figure 21: UT APN status

✎ After loading the ephemeris file and bringing the UT online for the first time, leave the UT online for 30 minutes to allow for over-the-air software updates.

6 Maintenance recommendations

Periodically inspect the UT and the installation site. Ensure cables and connectors are organized, secure, and whole. Ensure UT fans are unobstructed and clear of debris.

6.1 Update the software

Kymeta UT software updates automatically when the unit is online. When bringing the UT online for the first time, or after a period of storage and/or inactivity exceeding 90 days, reload the ephemeris file as outlined in [Section 5.4 Set up the UT OneWeb satellite service module](#) and leave the unit online for 30 minutes to allow for the over-the-air software update to complete. To update software manually, contact your distribution partner.

6.2 Clean the UT

 Avoid scrubbing and do not use abrasive materials when cleaning the UT components. Avoid exposing rubber parts (for example, gaskets) to alcohol or alcohol-based cleaners since these can deteriorate the rubber.

1. Prior to cleaning any part of the UT, ensure it is powered off.
2. Blow or rinse off loose debris first, and then apply a cleaning agent.
 - » Clean fingerprints, smudges, salt spray, and light marks with a soft sponge and a mild cleanser that does not use abrasives, acids, and/or biocides are added.
 - » For more difficult stains, isopropyl alcohol products (CAS Number 67-63-0) or LPS Precision Clean Multi-Purpose Cleaner (10 to 1 dilution ratio) can be used, however the hydrophobic coating should be reapplied after cleaning. See [Section 6.3 Reapply the hydrophobic coating](#) for more information.
3. Disconnect any external connections.
4. Gently clean any surface corrosion on the exterior of the **connectors** with a soft bristle brush or soft sponge using isopropyl alcohol or a mild cleanser. Do not scrape or overscrub the connector housing or contacts as this can damage the coatings and render it more susceptible to corrosion.
5. Reconnect the connectors. Ensure connectors are completely dry before reconnecting.
6. Clean lightly oxidized screws with a soft bristle brush and isopropyl alcohol. Replace heavily corroded or oxidized screws when possible.

6.3 Reapply the hydrophobic coating

The Kymeta UT comes with a hydrophobic coating applied to the radome. For best performance, Kymeta recommends reapplying the coating every 2 to 5 years with Nasiol NL272 nano ceramic coating. If the terminal requires cleaning prior to the recommended reapplication time of 2 to 5 years, Kymeta recommends using a neutral pH vehicle shampoo to remove dirt and debris. The NL272 material safety data sheets are provided at the end of this document. For information on NL272 or for purchasing NL272 directly, visit <https://www.nasiol.com/nasiol-nl272/>.

Refer to *Nasiol NL272 nano ceramic coating application kit instructions (700-00186-000)* for details.

7 Shipping and packaging guidelines

✎ Kymeta recommends boxing the UT in the original packaging. If you need to return a UT, Kymeta provides the replacement terminal first. Use the packaging from the replacement UT to ship the original one back.

The order of the following steps may vary depending upon your mounting structure. Always follow the guidelines in Section 3 Safety and handling for best practices.

1. Power off the UT.
2. Carefully disconnect and cap the power cable and Ethernet cable, being mindful of pins and connectors.
 - a. Ensure cable ends do not drop into water or dirt.
 - b. Dry off cables and coil them into the box, binding with cable ties.
 - c. Do not leave adapters on cables.
3. Remove the UT from the mounting structure and place it with the radome facing down on a non-abrasive surface for safe and easy access.
4. Dry off all equipment and remove any debris.
5. Place the UT back into the original cardboard box.
 - a. Secure any loose items (e.g., screws, tools, cable ends).
 - b. Close the box.

8 Accessories and field replaceable units

To view and order accessories and field replaceable units for your UT, visit the Kymeta Configurator at <https://portal.kymeta.io/configurator> or scan the QR code provided below.



Additionally, you can refer to *Kymeta u8 LEO accessories guide (700-00248-000)* to access a comprehensive list of available accessories and field replaceable units.

9 u8 products limited warranty and support

To access the Kymeta u8 products warranty document, either scan the QR code provided below or visit the Kymeta website at www.kymetacorp.com/legal/product-warranty/.



10 Regulatory and legal information

To access Kymeta's regulatory and legal document, either scan the QR code provided below or visit the Kymeta website at www.kymetacorp.com/legal/.



11 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.

12 Revision history

Revision	Change
01	Initial version.

13 Copyright and trademark information

©2023 Kymeta Corporation. All Rights Reserved. KYMETA, HAWK, GOSHAWK, OSPREY, PEREGRINE, MAKING MOBILE GLOBAL, and CONNECTED BY KYMETA 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.

14 Advanced user tools

Appendix A. Hawk u8 LEO UT network diagram

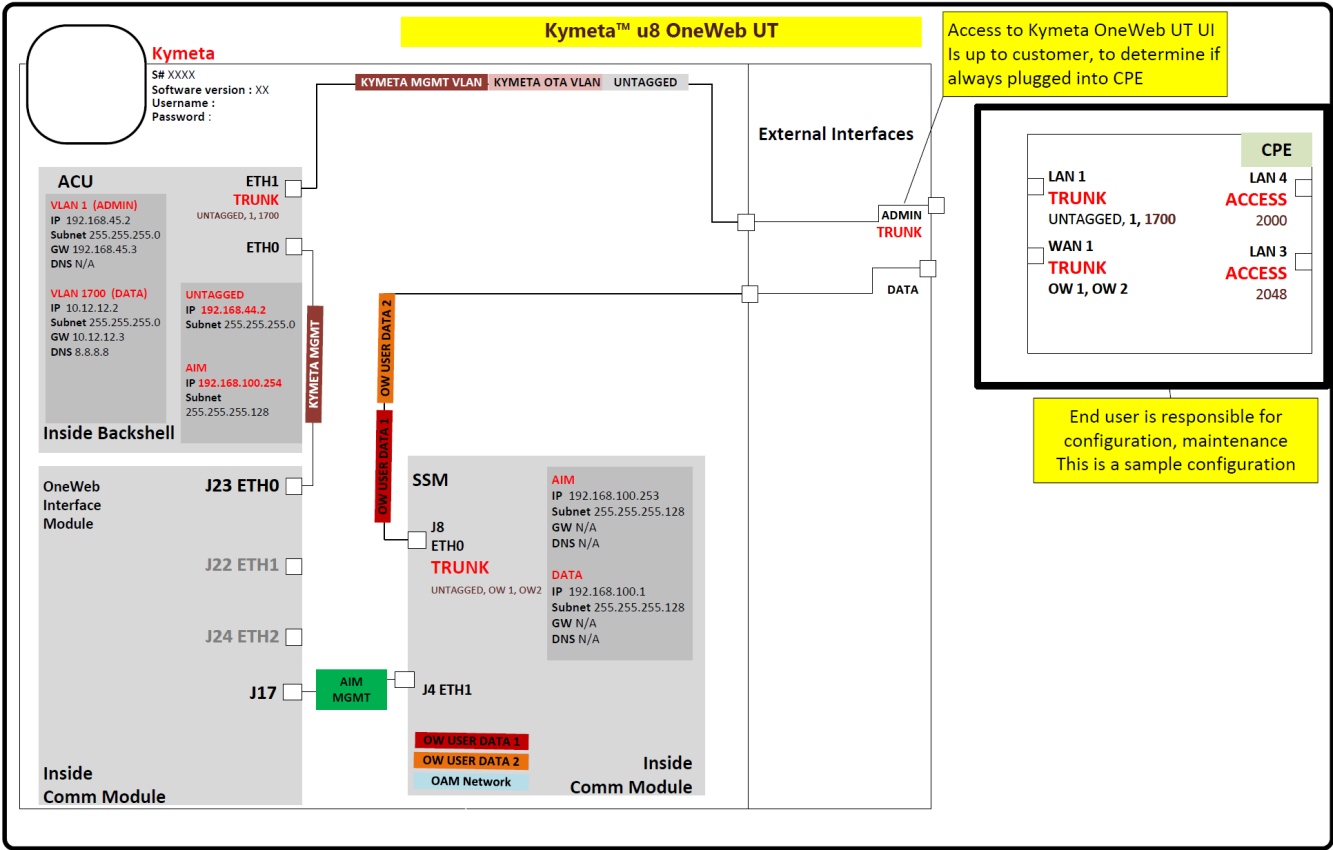


Figure 22: Hawk u8 LEO UT network diagram

Appendix B. Network interfaces

The u8 satellite terminal will ship to you with the following network interfaces:

Network Interface	Network Setting	Terminal value (as shipped)
Local network	IP Mode	static
Local network	IP Address	192.168.44.2
Local network	Netmask	255.255.255.0
Local network	Gateway	blank/empty
Local network	DNS Server	blank/empty
Admin VLAN	IP Mode	static
Admin VLAN	IP Address	192.168.45.2
Admin VLAN	Netmask	255.255.255.0
Admin VLAN	Gateway	blank/empty
Admin VLAN	DNS Server	blank/empty
Data VLAN	IP Mode	static
Data VLAN	IP Address	10.12.12.2
Data VLAN	Netmask	255.255.255.0
Data VLAN	Gateway	10.12.12.3
Data VLAN	DNS Server	8.8.8.8

 Failure to utilize the Data VLAN settings as shipped will result in connectivity issues with the antenna on all forms of u8 terminal connectivity as well as elimination of OTA metric transmission.

If you use the antenna reset button, and depress the button for 5 seconds or longer, the u8 reverts to baseline network configuration:

Network Interface	Network Setting	Baseline configuration (after reset)
Local network	IP Mode	static
Local network	IP Address	192.168.0.10
Local network	Netmask	255.255.255.0
Local network	Gateway	blank/empty
Local network	DNS Server	blank/empty
Admin VLAN	IP Mode	static
Admin VLAN	IP Address	192.168.45.2
Admin VLAN	Netmask	255.255.255.0
Admin VLAN	Gateway	blank/empty
Admin VLAN	DNS Server	blank/empty
Data VLAN	IP Mode	static
Data VLAN	IP Address	10.12.12.2
Data VLAN	Netmask	255.255.255.0
Data VLAN	Gateway	10.12.12.3
Data VLAN	DNS Server	8.8.8.8

If you use the antenna reset button, be sure to replace the network configuration as defined by the tables above. Use the Kymeta web-based UI at **Settings > Network** to adjust the values to match the as-shipped configuration or as required. It is recommended you use the Admin Wired Ethernet Port to access and make corrections to reduce connectivity issues.

Appendix C. Device login information

The table below is a collection of devices, usernames, and default passwords.

 You will be prompted to change your password on the first login to the Kymeta Access application or web-based UI. Leaving the passwords as the default is a security risk.

Configuration	Device	IP address or SSID	Username	Password	Usage information
Terminal	Satellite service module (SSM)	192.168.100.1	N/A	N/A	Access the OneWeb SSM UI
Terminal	Antenna	192.168.44.2	admin	2Cf#g^Ant	Access the Kymeta web-based UI.

Appendix D. LED status indicators

Antenna status LED indicator

LED state	Status Description
Off	Antenna not powered
Solid amber	Antenna powered but not successfully booted
Solid green	Antenna powered and successfully booted
Blink green, then solid green	Antenna reset successful

Satellite modem status LED indicator

LED state	Modem Status	Status Description
Off	OFF	Satellite modem not powered
Solid amber	BOOTING	Satellite modem powered and in boot process
Solid green	READY	Satellite modem successfully booted
Blinking green	ON	Satellite modem initializing system for network acquisition
Blinking blue	NETWORK ACQUISITION	Satellite modem network acquisition in process
Solid blue	CONNECTED	System has completed successful boot-up. Modem is receiving SINR.
Solid red	ERROR	Fault detected by built-in self-test (BIST)