KYMETA™

Hawk u8 - GEO

MAKING MOBILE GLOBAL™

The Kymeta Hawk™ u8 provides a complete connectivity solution for on-the-go communications when and where you need it in a single integrated platform.

Leveraging Kymeta's revolutionary software-defined, electronic beam steering antenna technology, the Hawk u8 has been engineered for robust performance, class leading capabilities, and broad environmental specifications. The terminal includes an embedded satellite modem, and an option for a cellular modem, SD-WAN router, and Wi-Fi hotspot, while maintaining a low power, low profile integration for seamless communication on mobile platforms.

The GO 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 MIL- STD-810H transportation standards and comes with hardened tie-down points.

Global connectivity is available in by-the-gigabyte packages or unlimited CIR plans. The Kymeta™ Access application provides an intuitive user experience to interface with the Hawk u8 and the Kymeta Access portal data.

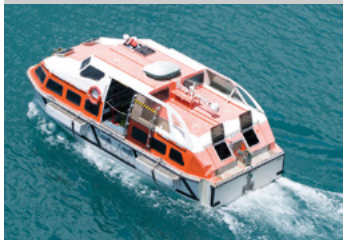
DESIGNED FOR MOBILE PLATFORMS
Low profile, aerodynamic design, native DC power input, and new accessories simplify vehivle integration.

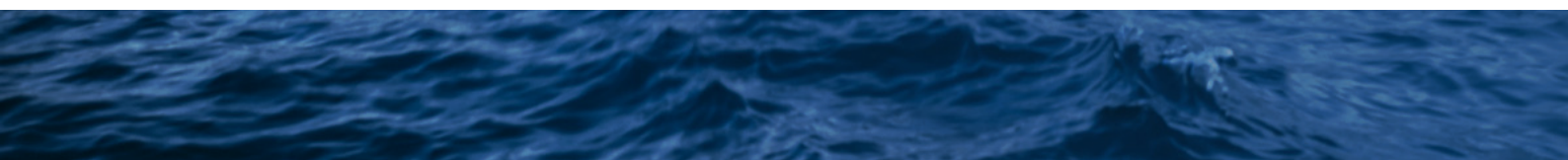
ALWAYS-ON CONNECTIVITY
With a multi-wan satellite and cellular configuration, the hybrid terminal provides communication anywhere.

CLOUD-ENABLED SOLUTIONS
Access to terminal metrics and SD-WAN, edge content, and connectivity management tools available via a cloud-based portal

PORTABLE
With a reusable shipping case, the go hybrid terminal provides the fastest out-of-the-box communication anywhere—JUST ADD POWER.

LEO ENABLEMENT
The antenna is also designed for Ku-Band LEO constellations. You can convert your Hawk u8 to LEO enablement at a later time.





Technical Specification *

ANTENNA

BAND
Ku

ANTENNA TYPE
Electronically scanned array

APERTURE
RX and TX combined
82 cm active diameter

POLARIZATION
Linear, software-defined
(circular with software upgrade)

RX

RX FREQUENCY RANGE
10.7 GHz to 12.75 GHz

G/T BROADSIDE
9.5 dB/K to 12 dB/K

G/T @ 35° ELEVATION,
TYPICAL LAND MOBILE
6.5 dB/K to 9.5 dB/K

TX

TX FREQUENCY RANGE
13.75 GHz to 14.5 GHz

TX GAIN BROADSIDE
34 dBi to 34.5 dBi

TX GAIN @ 35° ELEVATION,
TYPICAL LAND MOBILE
32 dBi to 32.5 dBi

CROSS-POLARIZATION ISOLATION
≥25 dB

TX INSTANTANEOUS BANDWIDTH
>62 MHz

EIRP BROADSIDE (TERMINAL)
46 dBW to 46.5 dBW

TRACKING

SCAN ANGLES
Az 360°, El +15° to +90°

TRACKING RECEIVER TYPE
Integrated tracking system
DVB-S2, DVB-S2X

INTERFACES

NETWORK INTERFACE
Ethernet, Wi-Fi (excluding antenna)

RF CONNECTORS
N-type

WAVEGUIDE PORT
WR-75

CONNECTIVITY

SETUP TIME OF TERMINAL
Unpack, lift, mount, and operate in less than 20 minutes

ACQUISITION OF SIGNAL
Less than 1 minute from initiation of acquisition

MECHANICAL

DIMENSIONS

ODU
L 89.5 cm × W 89.5 cm x H 14 cm
L 35.2 in. × W 35.2 in. x H 5.5 in.

TERMINAL
L 89.5 cm × W 89.5 cm × H 14 cm
L 35.2 in. × W 35.2 in. × H 5.5 in.

GO
L 104 cm × W 104 cm × H 38 cm
L 41 in. × W 41 in. × H 15 in.

WEIGHT

ODU
31 kg (69 lb.)

TERMINAL
34 kg (75 lb.)

GO
~68 kg (~150 lb.)***

OPERATIONAL TEMPERATURE**
-40 °C to +55 °C (ambient)
-40 °C to +70 °C (with solar load)

STORAGE TEMPERATURE
-40 °C to +85 °C

INGRESS PROTECTION
IP66

POWER

DC INPUT POWER
12 VDC to 36 VDC max

POWER CONSUMPTION

WITH EMBEDDED MODEM AND RF CHAIN:
130 W (typical), 250 W (peak)**

NO MODEM, RF CHAIN:
35 W (typical), 250 W (peak)**

COMPLIANCE

CERTIFICATIONS
CE, FCC, Nemko, WEEE, RoHS

SUPPORTED MODEMS

iDIRECT
iDirect Evolution and Velocity platform with X7, 950mp, and iQ 200 routers

VIASAT
Viasat ArcLight platform with CBM-400 modem

COMTECH
Comtech SLM-5650B and UHP-200 routers

AUTOMATIC ACQUISITION POSSIBLE WITH SYSTEMS SUPPORTING OPENAMIP V.1.12

- Newtec Dialog platform with MDM3310 and MDM2510 modems
- Gilat SkyEdge II-c platform with Capricorn-4 modem
- Comtech UHP-100 router

AVAILABLE HAWK u8 CONFIGURATIONS

OUTDOOR UNIT (ODU)

- Flat-panel, full-duplex antenna
  - Integrated radome
  - Integrated antenna control unit (ACU)
  - Integrated antenna power supply
  - Satellite auto-acquisition and tracking capability
  - All outdoor, robust IP66 rated enclosure
- RF chain with low-profile BUC
- Shroud with integrated air circulation solution

SATELLITE TERMINAL

- ODU
- Embedded iDirect iQ 200 satellite modem
- Supports multiple VLANs and existing satellite network configurations

HYBRID TERMINAL

- ODU
- Embedded iDirect iQ 200 satellite modem
- Embedded multi-WAN device with global LTE support (global or North America and public safety configurations)

GO

- ODU, satellite terminal or hybrid terminal
- Rugged transport case with built-in tie-down points
- Tilt mechanism for COTP deployments
- AC-to-DC universal power kit
- Vehicle mount

AVAILABLE ACCESSORIES

- Vehicle mount kit
- Vehicle power kit
- AC-to-DC power kit

* Specifications as of 16 March 2022. Subject to change.
** Software-controlled peak power draw. User-configurable to a higher threshold for very low-temperature operation.
*** The exact weight depends on the u8 GO product configuration.