

KYMETA™
MAKING MOBILE GLOBAL™



OSPREY™
u8

ON-THE-MOVE COMMAND AND CONTROL COMMUNICATIONS AT THE TACTICAL EDGE



EMERGING OPERATIONAL REQUIREMENTS

- » Robust and flexible COTM and COTP for multinational operations
- » Command and control to the tactical edge
- » On-demand and always-on connectivity for real-time access to mission critical data
- » Built-in spectrum resiliency
- » No additional user training required beyond satellite modem used



THE KYMETA SOLUTION



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u8



- » EASE OF USE — Requires minimal training with mobile, auto-acquire functionality
- » DURABLE — Designed and tested to military specifications including MIL-STD-810 and MIL-STD-1275
- » FLEXIBLE — Contains a modular expansion tray enabling field installation of mission-specific cartridges and additional external modems
- » RESILIENCY — Enables automated path diversity in contested environments
- » EXTENDED ENVIRONMENTALS — Built for operation in the most demanding and extreme land mobile and maritime environments
- » LOW POWER REQUIREMENT — Operates on native DC power (130 watts typical) for use on a range of platforms from the smallest utility vehicles to the largest logistics vehicles
- » LOW TOTAL COST OF OWNERSHIP — Antenna has no moving parts and a high MTBF
- » INCREASED SURVIVABILITY — Designed for low profile integration and low thermal signature
- » LEO-EXPANDABLE — Anticipates LEO constellations with dual GEO/LEO operation capability for multi-orbit/multi-network use
- » DEPLOYMENT PROVEN — Used currently by the US Army, US Marine Corps, US Special Operations Command, and US Joint Special Operations Command



SPECIFICATIONS



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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

SATCOM MODEMS

Embedded iDirect 950mp satellite modem, support for multiple external modems

MECHANICAL

DIMENSIONS

L 90 cm × W 90 cm × H 15 cm
L 35.4 in. × W 35.4 in. × H 5.9 in.

WEIGHT

56.8 kg (125 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
130 W (typical), 250 W (peak)**

ANTENNA

BAND

Ku

ANTENNA TYPE

Electronically scanned array

POLARIZATION

Linear or circular, software-defined

RX FREQUENCY RANGE

10.7 GHz to 12.75 GHz

G/T BROADSIDE

9.5 dB/K to 12 dB/K

RX INSTANTANEOUS BANDWIDTH

250 MHz

TX FREQUENCY RANGE

13.75 GHz to 14.5 GHz

EIRP BROADSIDE

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

COMPLIANCE

CERTIFICATIONS

MIL-STD-810, MIL-STD-1275

OSPREY u8 CONFIGURATION

HYBRID TERMINAL

- » 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
- » Interface panel
 - › User data connections (2x RJ45)
 - › External modem connections (RX, TX, ACU interface)
 - › RF ports for MANET radio options (2x N-type)
 - › SD-WAN – external WAN input
 - › Terminal administration
- » RF chain with low-profile BUC
- » Ruggedized chassis with expansion cartridge
- » Embedded iDirect 950mp satellite modem
- » Embedded LTE Advanced Pro modem (global coverage configuration)

INCLUDED SOFTWARE-ENABLED CAPABILITIES

- » Manual positioning mode—operation in GPS-denied environments
- » Full privacy mode—Osprey u8 does not report back its position to NOC
- » External GPS support—ability to attach external GPS or M-Code receiver

KYMETA™ BROADBAND

Kymeta offers full-service connectivity solutions for the Osprey u8. By-the-gigabyte packages are available with either satellite or hybrid satellite/cellular capacity. TRANSEC services are also available for the Osprey u8. Refer to the Kymeta™ Broadband product sheet (700-00114-000) for more details.



*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.

For more information, contact Kymeta at sales@kymetacorp.com.

12277 134th Ct. NE, Redmond, WA 98052

Phone: 425.896.3700 | www.kymetacorp.com

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