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

OSPREY™ 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

OSPREY™ u8

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 FRQUENCY 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.

ARM POWERED · DVB S2X · LTE · WiFi · iOS

*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.**

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