



# Multi-Orbit & Multi-Network for Maximum Operational Continuity at the Tactical Edge



OSPREY u8

## KEY FEATURES



**MULTI-ORBIT & MULTI-NETWORK ON THE MOVE**  
GEO-LEO-Cellular operation capability



**LOW-SWaP**  
Operates with native vehicle power systems for seamless integration



**EASY TO USE**  
Easy to deploy and operate, featuring auto-acquisition and tracking capabilities



**RESILIENT**  
Enables automated path diversity in contested environments also supported by A-PNT module add-on



**FLEXIBLE APPLICATIONS**  
Optional features, including ephemeris data tracking



**INCREASED SURVIVABILITY**  
Low profile integration & low thermal signature, with less detectable modem waveform & beam shaping for LPI/LPD



**RUGGEDIZED**  
Designed and tested to MIL-STD-810 for the most demanding environments



**LOW TOTAL COST OF OWNERSHIP**  
Antenna has no moving parts and a high MTBF

PLATFORM	OSPREY u8
ANTENNA TYPE	Full duplex, single aperture, Ku-band flat-panel antenna, electronically steered holographic beamforming array
SCAN ANGLES	Azimuth: 360°, Elevation: +15° to +90°
POLARIZATION	Linear / Circular software controlled
RECEIVE (RX) BAND	10.70 GHz to 12.75 GHz
RX PERFORMANCE	G/T (broadside) 9 dB/K to 12 dB/K
TRANSMIT (TX) BAND	13.75 GHz to 14.50 GHz
TX PERFORMANCE	EIRP (broadside): Software controlled 41.3 dBW (6 W) LEO 49 dBW (40 W) GEO
CROSS-POL ISOLATION	≥25 dB
INTERFACES	Ethernet, Wi-Fi (802.11 b/g/n), and N-type RF connectors
DIMENSIONS	L 89.5 cm × W 89.5 cm × H 15 cm / L 35.24 in. × W 35.24 in. × H 5.91 in.
WEIGHT	49.4 kg / 109 lb.
INPUT POWER	12 VDC to 36 VDC max
POWER (TYPICAL, STEADY STATE)*	LEO operation: 130 W GEO operation: 190 W
OPERATIONAL TEMPERATURE	-46 °C to +55 °C (ambient) -46 °C to +70 °C (with solar load)
STORAGE TEMPERATURE	-46 °C to +85 °C
INGRESS PROTECTION	IP66
COMPLIANCE	MIL-STD-810, MIL-STD-1275

**MODULAR CARTRIDGE CONFIGURATIONS**

Embedded GEO modem	Embedded LEO modem	External modem connection	Ethernet switching device	Cellular	Wi-Fi
iDirect 950mp	OneWeb SSM**	Yes	Peplink HD1	600 Mbps (CAT 12)	Yes
iDirect 950mp	OneWeb SSM**	Yes	Connecttech XDG016	None	No

**KYMETA™ | MULTI-NETWORK BROADBAND**

Kymeta completes the Osprey u8 turnkey solution with pooled plans designed with the modern warfighter, enabling users to share the data across multiple user terminals globally for a whole year. High speed, low latency LEO + TRANSEC GEO + Commercial GEO + LTE.

\*Factory setting of the software-controlled peak power draw for the Osprey u8 is 750 W. User-configurable to a lower threshold for power limited platforms (750, 630, 510, 400).

\*\*Physical OneWeb SSM is located in the Osprey u8 platform, the interface to the modem is provided through the Osprey u8 cartridge.



For more information, contact Kymeta at [sales@kymetacorp.com](mailto:sales@kymetacorp.com).

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**KYMETA™**