KYMETA™
MAKING MOBILE GLOBAL™

Ku

Ku-BAND FLAT-PANEL
ELECTRONICALLY STEERED
GEO SATELLITE TERMINAL

OSPREY™ u8

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

KEY FEATURES

Ease of use:	Minimal training required with mobile, auto-acquire functionality
Flexible:	Modular equipment bay and mounting systems for a wide range of combat vehicle systems
Durable:	Designed and tested to MIL-STD-810 and MIL-STD-1275
Low power:	Operates on native DC power with 130 W power steady state consumption
Resiliency:	Enables automated path diversity in contested environments
Increased survivability:	Designed for low profile integration and low thermal signature
Low total cost of ownership:	Antenna has no moving parts and a high MTBF
LEO-expandable:	LEO expansion with GEO/LEO operation capability

OSPREY™ u8

SPECIFICATIONS

SPECIFICATION*	HYBRID	HYBRID-GEO
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, software-defined (circular capable)	
Receive (RX) band	10.70 GHz to 12.75 GHz	
RX performance	G/T (broadside) 9.5 dB/K to 12 dB/K	
Transmit (TX) band	13.75 GHz to 14.50 GHz	
TX performance	EIRP (broadside): 46 dBW to 46.5 dBW (20 W BUC) 49 dBW to 49.5 dBW (40 W BUC)	
Cross-pol isolation	≥25 dB	
Satellite modem	N/A	Embedded iDirect 950mp
Cellular modem	600 Mbps (CAT 12)	
Interfaces	Ethernet, Wi-Fi (802.11 b/g/n), and N-type RF connectors	
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.	
Input power	12 VDC to 36 VDC max	
Power (typical, steady state)**	120 W (20 W BUC) 240 W (40 W BUC)	130 W (20 W BUC) 250 W (40 W BUC)
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	
Compliance	MIL-STD-810, MIL-STD-1275	

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.

ARM POWERED · DVB S2X · LTE · WiFi · iOS

*Specifications as of 27 July 2022. Subject to change.

**Software-controlled peak power draw set to 250 W. User-configurable to a higher threshold for very low-temperature operation.

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

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KYMETA™

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