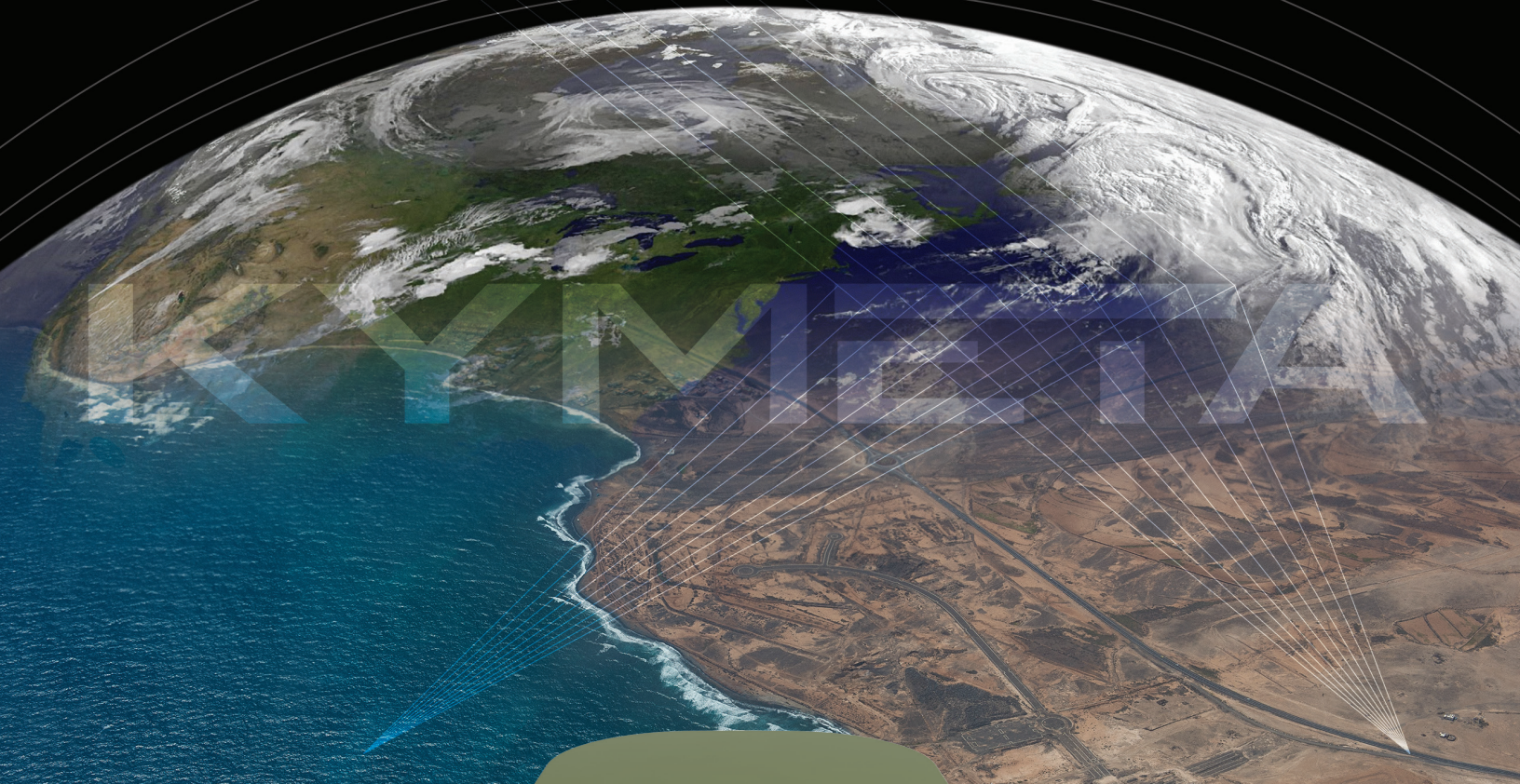




OSPREY™
u8

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



OSPREY u8
HYBRID-GEO-LEO (HGL)

KEY FEATURES

- Easy to 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 low power steady state consumption
- Resilient: 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
- Multi-Orbit, Multi-Network capable: GEO-LEO-Cellular operation capability

PLATFORM	HYBRID-GEO (HG)	HYBRID-GEO-LEO (HGL)
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)	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): 46 dBW (20 W BUC) 49 dBW (40 W BUC)	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 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.	51.3 kg / 113 lb.
Input power	12 VDC to 36 VDC max	
Power (typical, steady state)**	130 W (20 W BUC) 250 W (40 W BUC)	LEO operation: 130 W GEO operation: 190 W
Operational temperature	-40 °C to +55 °C (ambient) -40 °C to +70 °C (with solar load)	-46 °C to +55 °C (ambient) -46 °C to +70 °C (with solar load)
Storage temperature	-40 °C to +85 °C	-46 °C to +85 °C
Ingress protection	IP66	
Compliance	MIL-STD-810, MIL-STD-1275	

AVAILABLE CARTRIDGE CONFIGURATIONS

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

*Specifications as of December, 2023. Subject to change.

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

***Physical OneWeb SSM is located in HGL platform, interface to modem is provided through HGL cartridge.



OSPREY u8
HYBRID-GEO (HG)

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.



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

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