

Kymeta Osprey™ u8 HGL Ku Terminal for COTM and COTP

Powered by Intelsat FlexMove for Government



The Kymeta Osprey u8 hybrid-GEO-LEO (HGL) terminal provides multi-orbit capability for mission-critical operations while on the move, making it suitable for various vehicles and vessels. It operates seamlessly with native power systems. Designed and tested to MIL-STD, the Osprey u8 HGL leverages the flexibility and reliability of Intelsat's GEO network with the higher speeds and lower latency of Eutelsat OneWeb's Low Earth Orbit (LEO) network, as well as other data paths for increased flexibility.

Flat Panel ESA | GEO-LEO Ku Band | Ruggedized | Low Profile

The Kymeta Osprey u8 HGL is ideal for government and military agencies that require real-time situational awareness and advanced networking capabilities in mission critical situations. When paired with Intelsat's FlexMove for Government, the Osprey u8 HGL ensures easy-to-use, ultra-reliable satellite communications and mission success where and when it's needed most. For enhanced speeds and low-latency, the terminal leverages Intelsat's FlexMove LEO for Government, which utilizes the OneWeb LEO constellation.

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



KYMETA™





OSPREY u8 SPECIFICATIONS*

PLATFORM: 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 / 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

*Specifications as of April 2024. Subject to change.

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

To learn more contact your Intelsat Government Solutions representative or visit:

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