Kymeta[™] Osprey u8 Multi-orbit Ku Terminal for COTM and COTP



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Powered by Intelsat FlexMove for Government

The Kymeta Osprey u8 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 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 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 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 resiliency: 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











OSPREY u8 SPECIFICATIONS*

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

*Specifications as of March 2025. Subject to change.

**Factory setting of the software-controlled peak power draw is 750 W. User-configurable to lower thresholds (750, 630, 510, 400 W).

Intelsat provides advanced multi-orbit, multi-band, and multi-network SATCOM solutions for mission-critical communications anytime, anywhere, all backed by expert account management and highly secure network operations.



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