

## Osprey u8

The Osprey u8 is a Ku-Band flat-panel satellite terminal that delivers resilient, on-the-move broadband for tactical operations. This user-friendly system provides multi-orbit access and is equipped with embedded A-PNT and GNSS-denied capabilities for missions at the tactical edge.



### Unmatched Resiliency & Redundancy

The Osprey u8's network redundancy—from embedded modems, swappable cartridges, and external ports—enables automated path diversity in contested or GNSS-denied areas. Its LEO-expandable architecture ensures future-proof, multi-orbit connectivity.

### Battle-Tested Durability

Built for harsh environments, the Osprey u8 is tested to MIL-STD-810 and MIL-STD-1275. Its solid-state construction with no moving parts ensures high durability, near-zero maintenance, a high MTBF, and an industry-leading operating temperature range.

### Low Detectability & Survivability

The Osprey u8 is designed with a low thermal signature to be less detectable by infrared threats. Combined with its low-profile integration, military color options, and optional Chemical Agent Resistant Coatings (CARC), the terminal enhances platform survivability.

### Efficient & Simple Operation

Quick to deploy and simple to operate, the Osprey u8 features auto-acquisition requiring minimal training. An intuitive LED touchpad simplifies management. Consuming only 130W DC, it's perfect for deployment on military vehicles, vessels, and remote locations.

## Osprey u8 Technical Specifications

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	
RX performance	G/T (broadside) 9.5 dB/K to 12 dB/K	
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	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 x W 90 cm x H 15 cm / L 35.4 in. x W 35.4 in. x H 5.9 in.	
Weight	56.8 kg / 125 lb.	
Input power	12 VDC to 36 VDC max	
Power (typical, steady state)**	130 W (20 W BUC)	240 W (40 W BUC)
	120 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	

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

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