



KYMETA



Effective Monitoring Tools



50 Years + of Industry Experience



Technical Support



Security Approved Support Teams



Cyber Certified

PEREGRINE U8

Key Features:

- Proven maritime track record
- Easy installation with minimal weight
- Single or multi-panel antenna configuration
- Highly integrated, energy efficient, compact design
- Electronically steered antenna that requires no calibration or maintenance

HAWK U8

Key Features:

- Low power
- Easy installation
- Native mobility support
- Low profile and light weight
- Full duplex in single RX/TX aperture

Uses:

- Fixed sites
- Portable solutions
- Comms-on-the-move
- Comms-on-the-pause
- Ubiquitous connectivity

OSPREY U8

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





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EXAMPLE OF THE PEREGRINE u8 INSTALLED ON AN OFF-THE-SHELF PEDESTAL



MOUNT ADAPTER PLATE

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

**Software-controlled peak power draw set to 250 W.

User-configurable to a higher threshold or very low-temperature operation

Peregrine u8 Specifications

Terminal Type	OneWeb	OneWeb-Cellular
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	Circular, software-defined	
Receive (RX) band	10.70 GHz to 12.75 GHz	
RX throughput (per unit)	Up to 195 Mbps	
Transmit (TX) band	14.00 GHz to 14.50 GHz	
TX throughput (per unit)	Up to 32 Mbps	
Satellite modem	Embedded OneWeb	
Cellular modem	N/A	600Mbps (LTE-A pro) (Global or FirstNet configurations)
Interfaces	Ethernet	Ethernet & Wi-Fi (802.11b/g/n)
Dimensions (per unit)	L 89.5 cm × W 89.5 cm × H 14 cm (L 35.2 in. × W 35.2 in. × H 5.5 in.)	
Weight (per unit)	30.1 kg (66 lb.)	31.1 kg (68 lb.)
Input power (per unit)	10 VDC to 30 VDC or 90 VAC to 305 VAC via an accessory	12 VDC to 30 VDC or 90 VAC to 305 VAC via an accessory
Power (typical, steady state, per unit)**	95 W	125 W
Operational temperature	-40 °C to +55 °C	
Storage temperature	-40 °C to +85 °C	
Ingress protection	IP66	
Compliance	CE, FCC, Nemko, WEEE, RoHS	
Ship Motion		
Roll	±30° / 4.8 s (12.5°/s) max.	
Pitch	±30° / 4.8 s (12.5°/s) max.	
Yaw	±10° / 5 s max.	
Headway speed	20.5 m/s (40 knots)	
Wind	72 m/s (104 knots)	

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Hawk U8 Specifications

Terminal Type	OneWeb	OneWeb-LTE
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	Circular, software-defined	
Receive (RX) band	10.70 GHz to 12.75 GHz	
RX throughput	Up to 195 Mbps	
Transmit (TX) band	14.00 GHz to 14.50 GHz	
TX throughput	Up to 32 Mbps	
Satellite modem	Embedded OneWeb	
Cellular modem	N/A	600Mbps (LTE-A pro) (Global or FirstNet configurations)
Interfaces	Ethernet	Ethernet & Wi-Fi (802.11b/g/n)
Dimensions	L 89.5 cm × W 89.5 cm × H 14 cm / L 35.2 in. × W 35.2 in. × H 5.5 in.	
Weight	30.1 kg (66 lb.)	31.1 kg (68 lb.)
Input power	12 VDC to 36 VDC or 90 VAC via an accessory	
Power (typical, steady state)**	95 W	125 W
Operational temperature	-40 °C to +55 °C	
Storage temperature	-40 °C to +85 °C	
Ingress protection	IP66	
Compliance	CE, FCC, Nemko, WEEE, RoHS	

Available Accessories

- » AC-to-DC power kit
- » u8 DC power kit
- » Fixed mount
- » Vehicle rack mount (coming soon)
- » Transport case

GO system:

- » Rugged transport case with built-in tie-down points and drainage for rapid water egress
- » AC-to-DC universal power kit included
- » Vehicle mount included
- » Universal clamp mount

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

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Osprey U8 Specifications

Terminal Type	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	
Satellite modems	Embedded iDirect 950mp External modem connection	Embedded iDirect 950mp Embedded OneWeb SSM External modem connection
Cellular modem	600 Mbps (CAT 12)	
Interfaces	Ethernet, Wi-Fi (802.11 b/g/n), and N-type RF connectors	
Dimensions (per unit)	L 90 cm × W 90 cm × H 15 cm / L 35.4 in. × W 35.4 in. × H 5.9 in.	
Weight (per unit)	56.8 kg / 125 lb.	51.3 kg / 113 lb.
Input power (per unit)	12 VDC to 36 VDC max	
Power (typical, steady state, per unit)**	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	
Ingress protection	IP66	
Compliance	MIL-STD-810, MIL-STD-1275	

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