



Iridium Edge Solar

Track Smarter & Safer



The **Iridium Edge Solar** is a standalone, remote configurable and **solar-powered** Short Burst Data (SBD) device that offers real-time satellite tracking.

The product's self-charging, low maintenance, long field life and over-the-air configuration make the Iridium Edge Solar Tracker ideal for small fishing vessels, boats and yachts, where onboard power may be limited or unavailable.

► Key Features

- Global Satellite Tracking
- Graphical Live Positions & access to Digital Nautical Charts on **Falcon Mega Track**
- Over-the-Air Configuration Changes
- Interval and Scheduled Reporting Modes
- Start/Stop Reporting/In Motion Reporting
- Accelerometer and Magnetometer Sensors
- Fully Encapsulated, No External Connectors
- LED Status Indicator & Water Ingress Protected

► Power Management

- Photovoltaic Solar Cells, Rechargeable and Primary Batteries
- Back-up battery capacity provides 2x per day reporting for up to 5 years with no solar availability
- Up to 10-Year Operational Service Life
- Up to 3-year Shelf Life



▶ MECHANICAL SPECIFICATIONS

Dimensions	164.2 mm x 71.2 mm x 32.9 mm (L x W x H)
Weight	~ 470 grams

▶ ENVIRONMENTAL SPECIFICATIONS

• Operating Temperature	-40°F to 185°F (-40°C to 85°C)
• High Temperature Resistance	MIL-STD-810G:501.5, IEC60068-2-2 to 185°F (85°C)
• Low Temperature Resistance	MIL-STD-810G:502.5, IEC60068-2-1 to -58°F (-50°C)
• Recommended Storage Temperature	Store below 90°F (32°C) for best results
• Combined Thermal and Humidity Exposure	MIL-STD-810G:507.5, 20-95%RH up to 140°F (60°C)
• Solar Radiation Exposure	UL746C F1, ASTM-G154 to 1.0 yr
• Salt Fog Exposure	MIL-STD-810G:509.5 IEC60068-2-11 to 1000 hrs
• Combined Operational Temperature and Altitude	MIL-STD-810G:500.6 to 15000 ft
• Thermal Shock	MIL-STD-810G:503.5, 20 cycles between -40°F to 185°F (-40°C to 85°C) < 1min transition
• Impact Resistance	ASTM D3763
• Operational Vibration	MIL-STD-810G:514.7, IEC60068-2-80 to 7.5Grms Random (5Hz-2000Hz)
• HALT	Qualmark HALT testing guideline 993-0336, Rev 4 to 50Grms (5Hz - 10000Hz, -40°F to 185°F [-40°C to 85°C])
• Mechanical Shock	MIL-STD-810G:516.7 to 300Gpk
• Reliability	IPC9592a
• Ingress Protection	IP68

▶ INITIAL RELEASE CERTIFICATIONS


FCC	Part 15, Part 25
Industry Canada (IC)	RSS-210, 247, ICES-003 Class B
EU	R&TTE Directive 1999/5/EC
CB Ordinary Locations Classification	IEC/EN 60950-1, EIC/EN 60950-22, CAN / CSA C22.2 N° 60950-1-03, N°. 60950-22-03
OSHA Ordinary Locations Safety	ANSI / UL 60950-1, 60950-22

▶ CERTIFICATIONS

Brazil	ANATEL Resolucao N° 506 e Resolucao N° 442
Australia/New Zealand	RCM - CISPR22
Mexico	IFITEL, NOM121



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