

NOVATECH™ has been trusted worldwide for over 40 years.

The NOVATECH iSurface is a lightweight, self-contained, user serviceable, bi-directional GPS satellite beacon that utilizes the features and functionality of the Iridium® satellite network. The iSurface offers global, pole-to-pole coverage for surface mooring and buoy monitoring requirements. The easy to install beacon uses standard “D” cell batteries and is designed to operate for approximately 1.5 years after installation and report up to 4,500 Short Burst Data (SBD) messages.

The iSurface is suitable for long duration deployments and is designed for asset tracking on the open ocean. Manufactured and tested in Atlantic Canada, the iSurface was designed with harsh marine environments in mind.

- Superior battery life
- Rugged and innovative design
- Iridium and Bluetooth configuration
- Bi-directional communication
- Iridium certified



Empowering Data Connectivity, Everywhere.

iSURFACE TECHNICAL SPECIFICATIONS

2025-04 v1

PHYSICAL			
Mass In Air	2.2 kg (4.85 lb)		
Height	520 mm (20.47")		
Diameter	Hull	48 mm (1.89")	
	Head	67 mm (2.63")	
CONSTRUCTION			
Hull Material	Anodized aluminium		
End Cap Material	Delrin		
Antenna	Dual band GPS/Iridium ceramic patch		
POWER			
Batteries	4 "D" cell alkaline		
Reverse Voltage Input	Reverse polarity protection; -40 VDC maximum		
On/Off Control	Magnetic reed switch		
Power Supply Voltage (Remote head)	7 to 28 VDC		
Power Consumption (at room temp. with supply voltage of 12 VDC)	Mode of Operation	Condition	Current
	Sleep	7 to 28 VDC	<20 µA
	GPS Location Acquisition	First Fix	24 mA
	Iridium SBD Transmission	Avg. current transmission	135 mA
		Peak, 10ms bursts	1000 mA
OPERATIONAL			
Operating Temperature (excl. batteries)	-30°C to 70°C (-22°F to 158°F)		
Storage Temperature (excl. batteries)	-40°C to 85°C (-40°F to 185°F)		
Battery Temperature (Applies to version with internal batteries)	Operating Temperature	-18°C to 55°C (0°F to 131°F) - battery dependant	
	Storage Temperature	-40°C to 50°C (-40°F to 122°F) - battery dependant	
GPS RECEIVER			
Receiver Type	48-channel L1 SiRFstarIVTM receiver		
Frequency Range	1616 to 1626.5 MHz		
Sensitivity	-117 dBm		
CONNECTIVITY			
Local	Bluetooth SPP (Serial Port Profile)		
Remote	Iridium SDB		
CONFIGURATION INTERFACE			
Local	Bluetooth SPP communications using a Windows application		
Over-The-Air	Bi-directional Iridium SBD communications using Relay (Asset Management Website)		

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