

iBCN

- NOVATECH™ Iridium beacons
- Superior lifetime
- Rugged and innovative design
- Iridium and Bluetooth configuration



TRACKING & MONITORING



NOVATECH™ products have been proven throughout the world's oceans and trusted around the globe for over 40 years.

The iBCN is the next-generation of MetOcean's NOVATECH™ Iridium beacons, designed for tracking and locating assets. Rated to 7,500 m (24,600 ft), the self-contained submersible beacons use the bi-directional capabilities of the Iridium satellite telemetry system, allowing end users to receive near real-time GPS location of their asset.

Designed to meet unique deployment needs, the iBCN offers five battery housing options: self-contained, remote head, OEM, and extended battery life with the option of lithium or alkaline batteries. The NOVATECH™ Iridium beacons provide peace of mind for those unpredictable deployments.

TECHNICAL SPECIFICATIONS

ELECTRONICS

- Iridium 9603 - Short Burst Data Transceiver
- GPS Telit SE880: Ultra-sensitive receiver, 48 Channel SiRFstarIV™

PROGRAMMING INTERFACE

- Local Configuration
Bluetooth SPP (Serial Port Profile) communication via Windows application
- Over-The-Air Configuration, Bi-directional Iridium SBD communication

ENVIRONMENTAL

- Operating Temperature: -30°C to +70°C (-22°F to 158°F)
- Storage Temperature: -40°C to +85°C (-40°F to +185°F)
- Ocean Depth Rating: 7,500 m (24,600 ft)
- Storage Life: 24 months

PHYSICAL

- Hull Material: Titanium (Grade 2)
- Cap Material: PEEK and Titanium (Grade 5)
- Color: Natural

Features	OEM	iBCN	iBCN-3	iBCN-7	iBCN-RH
Model N°	MMI-513-00000	MMI-513-12000	MMI-513-22000	MMI-513-32000	MMI-513-41100
Dimensions (Battery Hull)		13.15" x 1.13" (335 mm x 28.7 mm)	9.0" x 2.0" (228.6 mm x 50.8 mm)	18.56" x 2.0" (471.4 mm x 50.8 mm)	18.50" x 1.70 (470 mm x 43.0 mm)
Dimensions (Electronics Enclosure)	2.18" x 2.20" (55.4 mm x 58.9)	2.18" x 2.20" (55.4 mm x 58.9 mm)	2.18" x 2.20" (55.4 mm x 55.9 mm)	2.18" x 2.20" (55.4 mm x 55.9 mm)	6.0' (1.83 m) Remote head cable
Mass in air (with batteries)	0.22 lb (0.49 kg)	1.78 lb (0.81 kg)	3.30 lb (1.5 kg)	Alkaline 7.82 lb (3.55 kg) Lithium 7.05 lb (3.2 kg)	5.94 lb (2.7 kg)
Mass in water (with batteries)	0.24 lb (0.11 kg)	1.11 lb (0.50 kg)	2.0 lb (0.91 kg)	Alkaline 5.40 lb (2.45 kg) Lithium 4.62 lb (2.1 kg)	3.55 lb (1.61 kg)
Hull Material		Titanium (Grade 2)	Titanium (Grade 2)	Titanium (Grade 2)	Hard anodized aluminum
Cap Material		Titanium (Grade 5)	Titanium (Grade 5)	Titanium (Grade 5)	
Battery		9 x CR123A Lithium	3 x "D" cells Lithium	7 x "D" cells Alkaline or Lithium	6 x "C" cells Alkaline
On/Off Control		Magnetic reed switch	Magnetic reed switch	Magnetic reed switch	Magnetic reed switch & pressure switch
Activation		Surface sense (conductivity) GPS satellite check	Surface sense (conductivity) GPS satellite check	Surface sense (conductivity) GPS satellite check	Surface sense (conductivity) & pressure switch, GPS satellite check
Lifetime		2 years after being submerged for 1 year; 24 hour reporting once surfaced	7 years after being submerged for 1 year; 24 hours reporting once surfaced	Alkaline: 11 years after being submerged for 1 year; 24 hours reporting once surfaced. Lithium: 19 years	4 years after being submerged for 1 year; 24 hours reporting once surfaced
Options		Optional remote head configuration	Optional remote head configuration	Optional remote head configuration	Optional remote head configuration