



# Gagan Enabled Mariners Instrument for Navigation and Information



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Designed &  
Manufactured by



## Product Description

GEMINI is a portable, self-contained GAGAN enabled GPS data recorder. The unit comprises of a high sensitivity GPS + GAGAN receiver with on-board non-volatile memory, antenna and an in-built rechargeable battery. The receiver is based on Accord's indigenous GPS receiver technology. It has a special feature of reception of Type 63 messages from all available GAGAN satellites

The device has a compact, waterproof, lightweight design and is built with tough ABS plastics.

The unit continuously records type 63 messages, user's position, speed, heading and time in a high endurance non-volatile memory. The receiver's intelligent power saving mode extends the battery operation for up to 5 days.

The Live Data and Recorded Data can be streamed directly to Android mobile phone through Bluetooth. The phone needs to have suitable application to receive the serial data and display it.

## Features

- ◆ High Sensitivity GAGAN enabled GPS Receiver
- ◆ Designed for Location Sharing Application
- ◆ Improved Accuracy with GAGAN Signals
- ◆ Rechargeable in-built Li-ion Battery
- ◆ Compact, Lightweight, Durable and IP67 design
- ◆ USB and Bluetooth interface
- ◆ NMEA0183 Rev 4.10 messages
- ◆ Indigenous GNSS Receiver
- ◆ GAGAN Type 63 reception for GAMES applications



Aug 2019



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# Specifications for GEMINI

Performance	
Channels	16
Signals	GPS L1, C/A code and GAGAN L1, C/A code
Cold Start TTFF	45 seconds (typical)
Hot Start TTFF	4 seconds (typical)
Positioning Modes	GPS + GAGAN, GPS Standalone
Horizontal position Accuracy	2.5m(RMS) with GAGAN , 5m (RMS) Standalone GPS
Speed Accuracy	0.1 m/s (RMS)
Position Update Rate	1 Hz
Altitude	-1,000m to +18,000m
Storage	300,000+ Records (Position and Type 63)
Battery Life	5 Days

Environmental	
Operating Temperature	0° C to +60° C
Storage Temperature	-20° C to +70° C
Humidity	95% RH Non-condensing
Ingress Protection	IP 67

Power / Antenna / Interface	
Power Supply	Rechargeable Li-ion Battery
Antenna	Inbuilt GPS Antenna
Host Interface	Micro-AB USB interface for Serial Communication
Data Output Formats	NMEA0183 Rev 4.10 and GAGAN Type 63
Bluetooth Protocol	Bluetooth Specification v2.0+EDR
Bluetooth Frequency and Power	2.4GHz/ Class2, ≤4dBm

Physical	
Weight of the Unit	450 gms (including battery)
Dimensions	162 mm x 110 mm x 46 mm (L x W x H)
Enclosure	ABS Plastic

Optional Accessories	
PC Application	GUI with NMEA, .kml, .igc, Type 63 Support
Data and Power Cable	USB Cable with 5V Charger Adaptor
Mounting Strip	Adjustable Strap Mount Belt