



The YB3i Two-Way Messenger is a truly global communication device and tracking system.

It is a lightweight, rugged permanently mounted device which uses the Iridium satellite network to transmit your messages, and your location, from anywhere in the world.

Features:

- Autonomous GPS tracking.
- Over-the-air reconfiguration of key parameters such as tracking frequency.
- Internal Battery Backup, allows for up to 2 weeks of unpowered operation.
- Various mounting options for covert or non-covert installation.
- Transmission via both GSM and/or Iridium Satellite (via optional add-on).
- Full 2-way communication system from anywhere on Earth.
- Integrated Power Conditioning (9-30v).
- Truly Global Operation, using the Iridium satellite network.
- Can work with other equipment to provide automated alerting features.

The YB3i allows you to track the position of your assets, and send and receive short messages from anywhere on Earth with a clear view of the sky.

It can transmit using either GPRS or Iridium satellite, and works far beyond the reach of standard WiFi and GSM networks.

Maybe you want to track your assets wherever they go? transmit weather information from mid-ocean? Or use it to control your robot in the middle of the desert? Perhaps you need to communicate in an emergency, when other networks might not be available? YB3i can help you.

At the heart of YB3i is an Iridium 9602 modem. The YB3i hosts the 9602 and provides it with an antenna, and its power supply requirements. Various options are provided for allowing you to communicate with your own systems, via NMEA, RS-232, Bluetooth LE and more.

Iridium is the only satellite network that allows transmission of information from any point on Earth – other networks have no coverage in the polar regions, and have intermittent or no coverage in other marine and land areas.

Iridium has 66 satellites in orbit around the Earth, allowing coverage anywhere on Earth 24 hours a day, 7 days a week. No other satellite network has truly global coverage. Messages sent via Iridium take just seconds to reach you, via e-mail or directly to your web-service.

Key Functionality

Coupled with our intuitive web-based control panels and your services:

- » **Power Requirements** – YB3i takes its power from a 9-30v DC supply. It also has a built-in battery backup unit which will allow it to operate for up to 2 weeks without external power (depending on transmission rate and settings).
- » **Basic Messaging** – Combined with our 'YB Connect App', you can use your smartphone or tablet to send and receive short e-mails and SMS via the YB3i from anywhere.
- » **NMEA Interface** – With the optional NMEA add-on the YB3i allows you to connect your own equipment and use the unit to send key NMEA data back to shore along with your tracking positions.
- » **Simple Installation** – The YB3i can be installed on a rail, or covertly installed inside the roof lining of your yacht. We also have mounting options to allow mounting on flying bridges and other similar positions.
- » **Alert options** – In conjunction with other equipment installed, the YB3i can also automatically send alert messages and change transmission frequency, press the alert button on the device and a message will be sent back to whoever you nominate, with your precise location.
- » **Inclusive Mapping** – Every YB3i comes with its own mapping interface, allowing friends, family or your organisation to view your current and historic track data on a simple web-based map.



Communication via USB, Bluetooth LE or serial/NMEA (UART/RS-232/RS-485)

Integrated power management via USB or 9-30v input plus integral battery backup

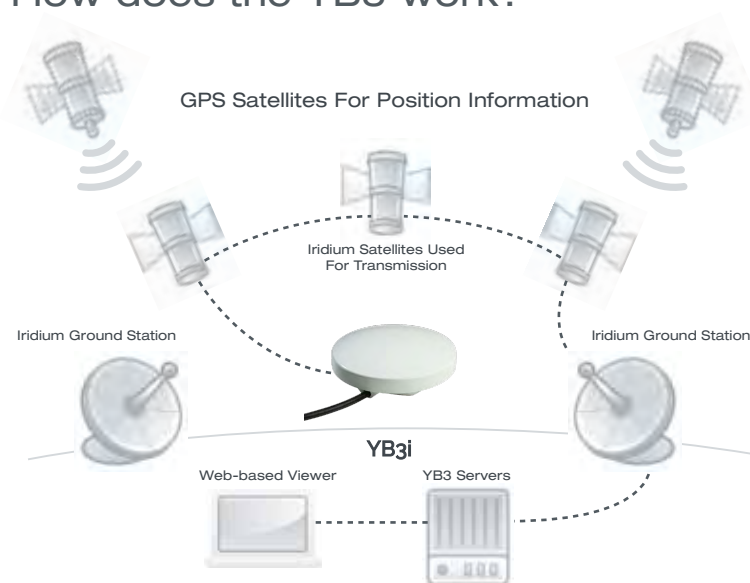
Global communications and tracking using the Iridium 9603



Global communications and tracking using the Iridium 9602

Receive messages directly via e-mail or forwarded to your own web service

How does the YB3 work?



Physical Properties

Dimensions/Weight	137 diameter x 40mm high / 500 g
Cable length options	3m - 5m - 10m - 15 metres
Mounting options	Rokk Mount or Deck Mount

Environmental Properties

Storage Temperature	-40 to 85 deg C
Operating Temperature	-30 to 60 deg C
Operating Environment	< 75% Relative Humidity
Testing	MIL-STD-810G for vibration, temperature and shock IP67 - Sealed against dust and water ingress to immersion of 1m

Power

Input voltage	DC 8 - 32v
Power Consumption	700mA maximum
Power Consumption	Low current sleep mode (<30mA)
Battery	LiPo cells, 5.3Ah

Communication

Iridium Modem	9602 short burst transceiver
Iridium Antenna	Maxtena 1621 patch antenna
GPS antenna/chip	uBlox GPS chipset

Battery Life (examples)

Up to 12 months transmitting once per day
Up to 3 months transmitting once per hour
Up to 3 weeks transmitting every 15 minutes

Actual battery life will depend on environment and usage patterns

Product Options

GSM, serial communications, Bluetooth LE 9-30v power input, various mounting bracket options.



Website: www.ybtracking.com

Email: support@ybtracking.com

Phone: +44 238 000 2029