

# SATELLITE MODULE

Iridium Satellite - Inmarsat Satellite (BGAN M2M)



If the site where you plan to perform wind or solar resource assessment is without a GSM signal, satellite communication is most likely the best option.

Kintech Engineering offers two alternative satellite solutions, Iridium and BGAN. For both the Iridium and the BGAN Satellite Module we include all the hardware, firmware and software components to communicate to the loggers.

## BGAN

Enables bi-directional communication with the EOL Zenith data logger through your existing internet connection. The data logger is equipped with the BGAN Satellite Module.

## Iridium

Enables bi-directional communication with the EOL Zenith data logger using a central Iridium satellite modem. The data logger is also equipped with the Iridium Satellite Module.

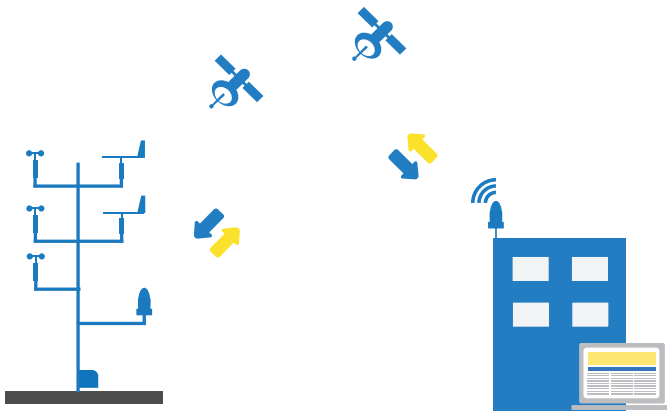
Both satellite modules (BGAN & Iridium) maintain full compatibility with the other features and accessories of the logger including:

- Real time data connections
- Upload new data logger settings
- Firmware upgrades
- Automatic data download
- GPS coordinates
- Windfarm Monitoring Module

For more information on data packages (BGAN) and satellite minutes (Iridium) please contact us.

IRIDIUM
WIND/SOLAR resource assesment
Communication in minutes
One connection at a time
Central modem needed
66 non-geostationary satellites
Easy antenna installation
Omni directional L-band antenna

BGAN
WIND/SOLAR resource assesment
Communication in Mbytes
Several simultaneous connections
Internet connection
12 geostacionary satellites
Specific procedure required to install the antenna
Directional antenna



### IRIDIUM SATELLITE

The Iridium satellite module enables remote bi-directional communication with your EOL Zenith data logger. This means that you can get your wind & solar measurement data from anywhere in the world.

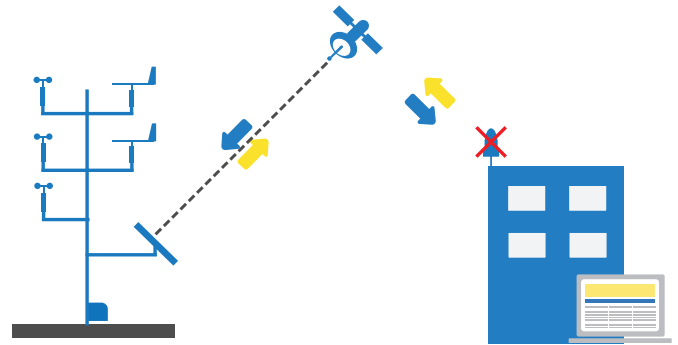
The 9522B modem is Iridium's 2nd-generation satellite transceiver and offers a comprehensive and reliable worldwide coverage.

It is ideal for sending and receiving voice and data from equipment everywhere on the planet. It functionally supports all of Iridium's voice and data services and easily integrates into a wide variety of applications through a RS232 serial interface and AT command set.

#### Satellite Minutes

Kintech Engineering offers several satellite minute packages. Depending on data logger settings, sensor configuration and download frequency various satellite minute packages are offered.

A local Iridium modem at the office (installed on the roof) is required in order to communicate with your met masts through Iridium.



### BGAN M2M SATELLITE

The BGAN satellite module enables remote bi-directional communication with your EOL Zenith data logger using your existing office internet connection. This means that you can get your wind & solar measurement data from anywhere in the world.

Each BGAN satellite module ships with BGAN Modem, BGAN antenna, support boom including angular support bracket and network cable.

Since the BGAN system connects through your standard office internet connection, it allows for several simultaneous satellite connections. This results in a more flexible system when operating various towers.

#### Data Service

The BGAN satellite system requires satellite data service. Select one of the data packages that Kintech Engineering offers, depending on data logger settings, sensor configuration and download frequency.

A local modem is not needed for operating remote BGAN satellite modems. A specific orientation procedure is required in order to assure a good signal coverage.



If you have any further technical questions about our satellite modules or simply wish to check on pricing and availability of the EOL Zenith® data logger, please contact us at for further information.

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