

# SediLink™ Radio Modem LM-36

Telemetry solution for SediMeter™ instruments.

## Description

The modem has a socket for an XBee or XBee PRO radio module, where the latter has higher effect. These radios use license-free frequencies, such as 2.4 GHz globally, 900 MHz in the Americas, and 868 MHz in Europe. The radio modem has four functions. It translates communication between a SediMeter™ and an XBee radio. Second, it provides power to the radio module from its rechargeable Lithium battery. Third, it has built-in solar cells for recharging its own battery and that of a connected SediMeter. Forth, it has white LEDs on the sides that blink when the instrument wakes up. This is useful as a visual indication that it is responding, and also as a buoy light to warn seafarers at night.

For laboratory use the radio modem can be mounted directly on a SediMeter SM3A, but normally a male-female cable is used to connect them, and the radio modem is mounted on a tube on a buoy.

Most radios support both 9600 baud for longer range, and 115200 baud for faster data transfer and less battery drain. Most radios also support DigiMesh™, a networking system that allows radios to act like routers and extend the effective size of the monitoring network.

We can also offer a **cell phone** module instead of radio. At the time of writing, the option is only available in the U.S.

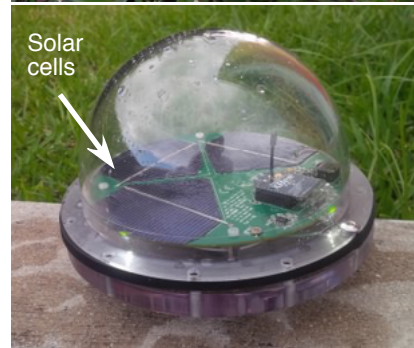
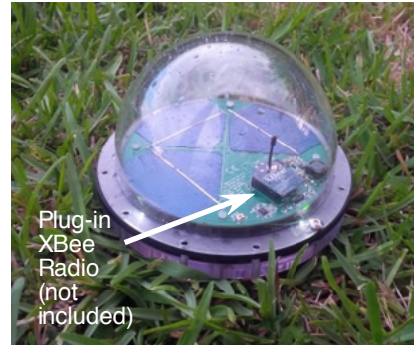
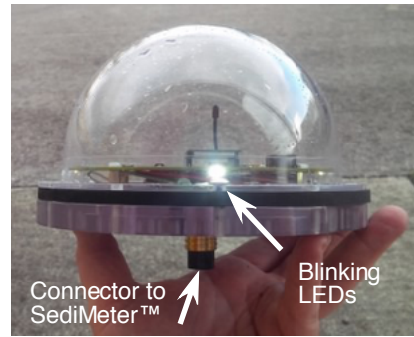
## Specifications

Socket accepts radios type	XBee, XBee Pro
Radio modem function	Transparent mode
Battery type	Lithium 2500 mAh
Battery duration	Depends on usage
Available radio power	3.3 V / 1000 mA
Charge current to SediMeter	5.5 V / 60 mA
Dimensions	Diam 180 mm X 120 mm
Weight	400 g

## Some Suitable XBee PRO Radios

- Japan: XBee-PRO 2.4J, range 1 km
- Everywhere else: XBee-PRO 2.4, range 1.6 km
- Americas, Australia: XBee-PRO 900HP, range 14 km
- Europe, Africa: XBee-PRO 868, range 40 km (this radio does not support 115200 baud or DigiMesh)

Unless you use a cell phone modem you also need a radio at your base station computer, whether on shore or on a data collection vessel. If on shore it can use a directional antenna to increase effective range.



Buoy and hardware not included



Two year warranty. Specifications subject to change without prior notice.



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