

Radio module eXtra Long Range (XLR)

Includes:

- 1 x eXtra Long Range radio module

This product comes without antenna, remember to add our [dipole antenna](#) or [vehicle mount](#) antenna to the cart.



More info about the product!



Radio module eXtra Long Range (XLR) has several different configurations to provide you with flexibility:

| SKU | Variation Name |
|-----------------------|----------------|
| AS-XBEE-XLR-NA-SMA-01 | North America |
| AS-XBEE-XLR-AU-SMA-01 | Australia |

Description

The eXtra Long Range version of our Radio Module. Based on Digi XBee PRO SX series, but on through hole format and with SMA connector. With a configuration optimized for sending RTK corrections over the air.

RTK technology works when base and rover are within 20km from each other. If you want to make use of all this range, this is your radio module.

With this radio module you will be able to send RTK corrections [between 50 and 60 km](#) in both point-to-point and point-to-multipoint configurations. This distance will depend on the region of use, subject to local regulations.

Don't forget to add in the shopping cart our [Configuration Service](#) if you want to receive them with a special pre-configuration.

Good to know:

- Compatible with all simpleRTK (V1 supports a maximum 100mW output power, Pro supports a maximum of 1W output power).
- Not compatible with simpleRTK2Blite
- The radio is sent pre-configured at 115'200bps and will connect automatically to other XLR radios from the same variant.
- If you have an LR kit already, just remove the LR radios, plug the XLR radios, and you are good to go!
- The radio is sent pre-configured at 100mW output power. Can be increased by user to 500mW, and up to 1W if mounted on a suitable XBee socket. [Contact us](#) if you have questions.
- The radio comes without antenna, remember to add our dipole antenna or vehicle mount antenna to the cart.

Specifications

LR radio features

- Communications: Bi-directional Point-to-Point or Unidirectional Point-to-Multipoint (unlimited rovers)
- Antenna type: external passive
- Antenna connector (radio side): SMA female
- Frequency:
 - Europe: 863-870 MHz
 - North America: 902-907 + 915-927 MHz (configurable)
 - Australia: 915-927 MHz
 - New Zealand: 917-927 MHz
- Output power: 20 mW (13 dBm)
- Range in line of sight:
 - Urban: 2.5 km
 - Rural: 5 km
 - Rural with complete RF line of sight: 10 km
- Operating temperature Range: -40 to +85deg
- Documentation: RED, RoHS, FCC, IC, ACMA, RSM

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Image Gallery



Documentation

User Guide <https://www.ardusimple.com/xbee-antenna-installation-guide/>

3D CAD STEP Files <https://www.ardusimple.com/3d-cad-step-files/>

Radio module eXtra Long Range (XLR) includes free basic technical support. Contact info@ardusimple.com for more information.

Data and descriptions in this document are subject to change without notice. Product photos and pictures are for illustration purposes only and may differ from the real product appearance.