

LorAES – User Manual

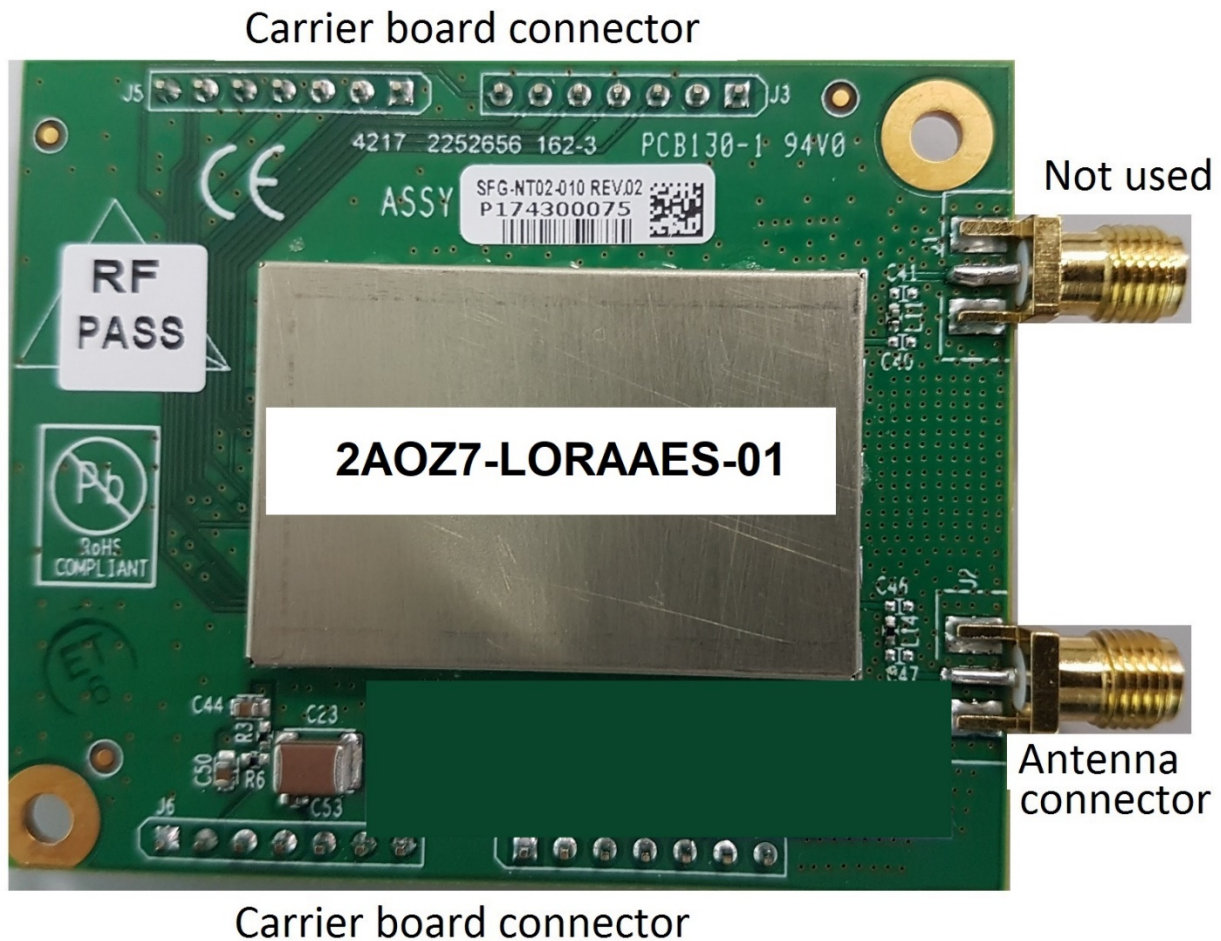
Overview:

The **LorAES Transceiver Module** feature the LoRa™ long range modem that provides ultra-long range spread spectrum communication.

Carrier:

In order to operate, LorAES module should be fed from external DC power source and preprogrammed. Usually this is done by host controlled or local CPU located on carrier board. The module is controlled by SPI bus and dedicated I/O pins interfaces. The operation SW also controls all RF and timing parameters in a real-time.

LorAES module view:



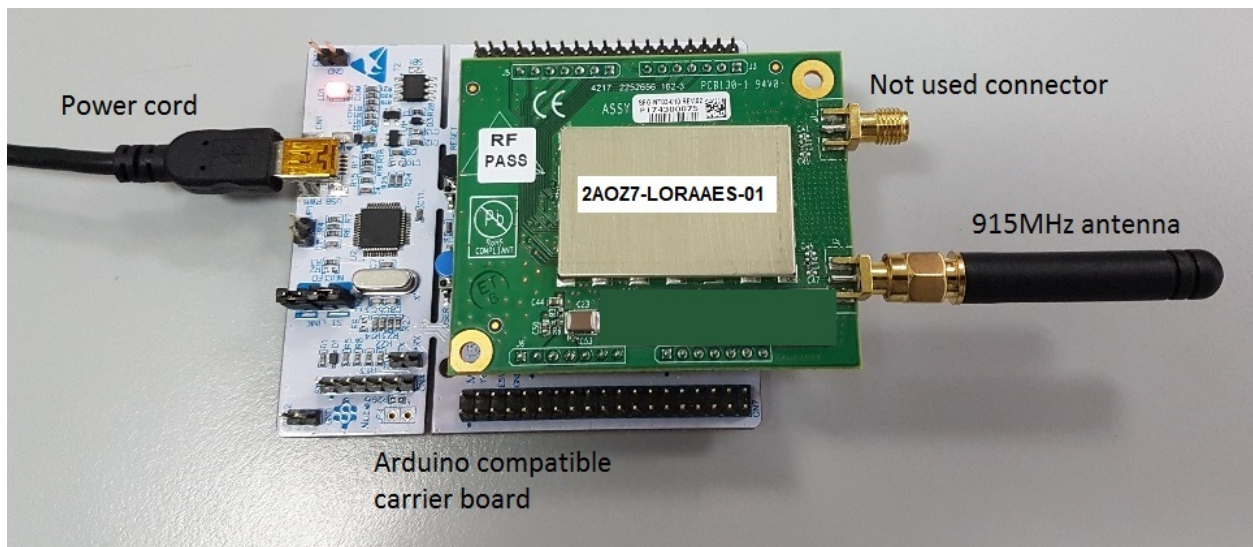
Picture-1

Antenna:

The module can be used with any 50ohm antenna operated in 902 MHz – 928 MHz band - for example: 2J0115-915-C20N from 2J vendor.

Quick Start:

1. Assemble LorAES module on appropriate carrier board (Arduino compatible).
2. Adjust appropriate antenna to Antenna connector (Picture-2).
3. Power on the carrier (Warning! module power should not exceed 3.7VDC).
4. Execute appropriate SW program for module initialization.
5. Execute appropriate SW program for module operation.



Picture-2