Single Channel Lora Tranceiver

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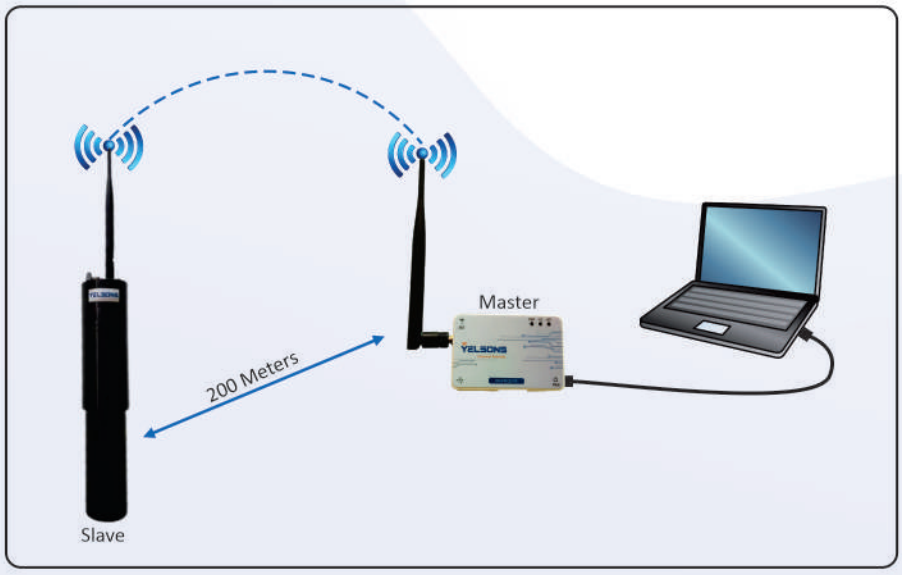
The Single channel LoRa-based DAS contains SiPM detectors. This radio tracing application is used for collecting data from remote locations. The detector of the system is placed at the remote location and the user can monitor the data at the receiver side using application

LoRa Rx Features:

- The device is powered up by connecting it to the laptop or an external power supply of 8V to 32V.
- The device operates in the range of 100meters to 200 meters
- USB communication between PC LoRa and computer.
- Connector: Subminiature Version A connector for signal
- Automatic RF sense and CAD with ultra-fast AFC
- 127 dB dynamic range RSS



- The LoRa Tranceiver system consists of LoRa Slave and LoRa Master.
- The LoRa Slave consists of detector which collects the data from the surrounding. This data is then converted to signals by internal electronic of the LoRa slave.
- The LoRa master requests the data to the LoRa slave.
- In response to this the LoRa slave send the data to the LoRa master.
- The LoRa master consists of Receiver device and the laptop connected through RS-485 on which the received data can be observed using application software.
- The maximum distance between slave and master is 200 meters.

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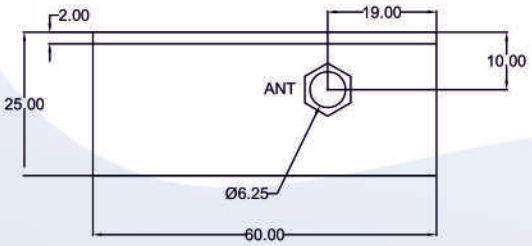
LoRa Specifications:

- Range: 200 meters
- Frequency: ISM 868/915
- Standard: IEEE 802.15.4g
- Modulation: Spread spectrum modulation type based on FM pulses
- Capacity: One LoRa gateway takes thousands of nodes
- LoRa physical layer: Frequency, power, modulation, and signaling between nodes and gateways.
- 168dB maximum link budget
- +20dBm-100mW constant RF output vs. voltage supply
- +14dBm high-efficiency PA
- Programmable bit rate up to 300 kbps
- High sensitivity down to -148dBm
- Low receive a current of 10.3mA, 200nA register retention.
- Preamble detection
- FSK, GFSK, MSK, GMSK, LoRaTM, and OOK modulation

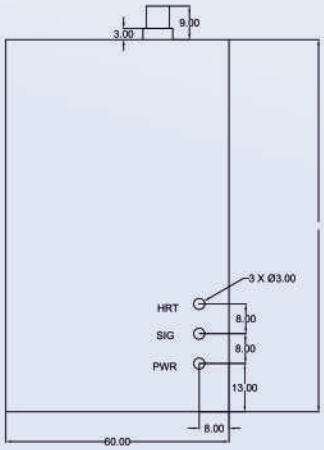
Mechanical Specification:

Material: Acrylonitrile Butadiene Styrene

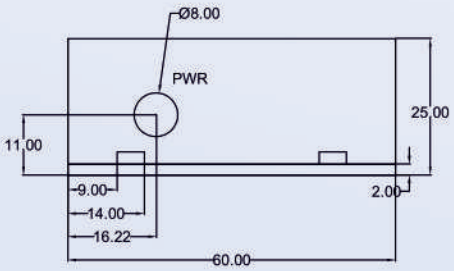
All the dimensions are in mm.



TOP VIEW



FRONT VIEW



BOTTOM VIEW

Product improvement is a continuous process. Please contact the Yelsons marketing team for latest updates.

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