

Sūcanavānī

Brief Introduction on LoRa Technology:

A LoRa-based messaging device is a communication system that uses LoRa (Long Range) technology to send and receive messages over long distances with low power consumption. These devices are often used in remote areas where cellular or Wi-Fi coverage is limited.

Key Features of a LoRa-Based Messaging Device:

- **Long-Range Communication** – Can transmit messages over distances of up to 10 km
- **Low Power Consumption**
- **Decentralized Network**
- **Mesh Networking (Optional)**
- **End-to-End Encryption** – Ensures secure communication between devices.
- **GPS Integration** – Can include GPS for location sharing and tracking.
- **Private or Public LoRaWAN Support**

LORA BASED MESSAGING DEVICE

- ❖ A LoRa Module (Low Power Radio waves to transmit data over long Range) is use to enable communication between 2 or more devices.
- ❖ The Messaging Device which we are presenting uses LoRa Technology.
- ❖ The Device can send text message from one to other.
- ❖ The Device not only sends the text message but also share the GPS coordinate of sender.
- ❖ In an Ideal Condition the Device can achieve ranges of several Km.
- ❖ Some tests have shown the result up to 10Km.
- ❖ The device consists of numeric keyboard for messaging directly from device.
- ❖ The same can be connected to android based mobile via C-type cable & Bluetooth.
- ❖ Each device also has a display & 12dBi antenna attached.



Use Cases:

- **Emergency Communication** – Used in disaster recovery when traditional networks fail.
- **Outdoor Adventures** – Ideal for hikers, campers, and explorers in remote areas.
- **Military & Defense** – Secure and reliable field communication.
- **IoT Applications** – Smart agriculture, remote monitoring, and industrial automation.
- **Community Networks** – Localized messaging systems in areas with poor connectivity.

Satisfied Customer:

- 16 Garhwal Rifles
- 846 FD Wksp
- 17 Corps Sig Regt.
- 31 Punjab
- 9 Corps Sig Regt.
- 17 Madras
- 26 IDSR
- 25 IDSR
- 20 MDSR
- 74 Armd Wksp
- 34 Armd Bde

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