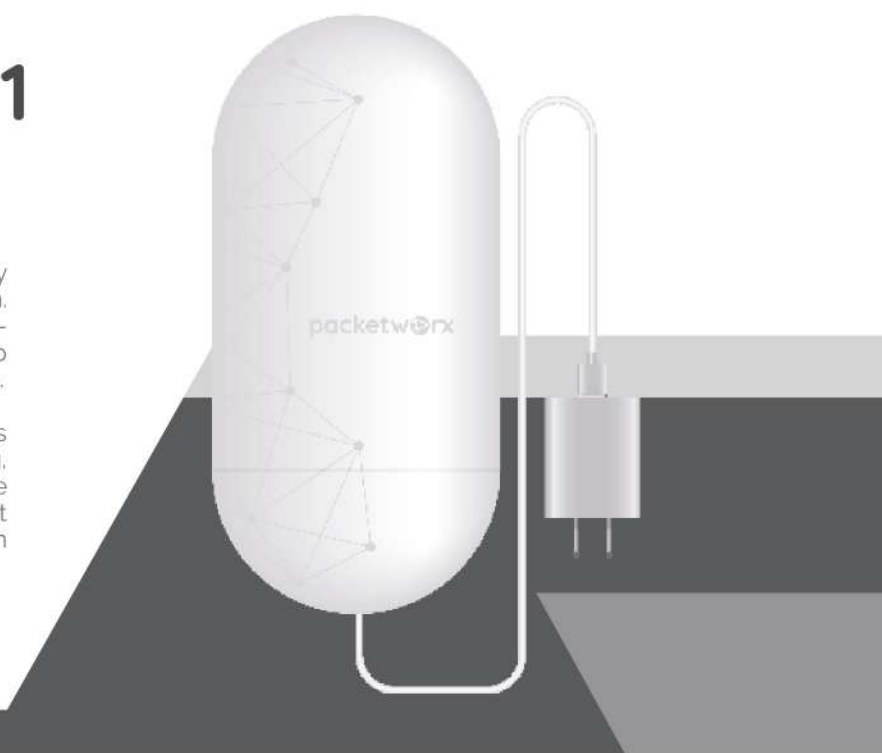# packetNODE v1.1
# BLE Scanner

The **packetNODE v1.1 BLE Scanner** seamlessly integrates LoRa and Bluetooth wireless communication. It scans relevant data and sends it to a LoRaWAN®-based gateway, which then uploads the information to the packetVIEW dashboard or any third-party software.

The device enables various applications, such as personnel tracking, indoor positioning, asset monitoring, and environmental monitoring. The device's dual-mode communication capabilities make it an invaluable asset for optimizing operations and improving efficiency in any organization.

## Features

- Based on LoRaWAN Protocol
- Supports Multicast
- Supports both ABP and OTAA activation modes
- Supports Firmware update Over The Air (OTA)
- Supports for configuring LoRaWAN-Based parameters by downlink command
- Low battery indicator
- Supports battery power and direct power supply

## Applications

- People Tracking
- Asset Tracking
- Indoor Positioning
- Environmental Positioning
- Health Monitoring using BLE Wearables

## Technical Specification

### Data Communications Supported

| | |
|---|---|
| Technology | LoRaWAN® V1.0.4, BLE 5.3 |
| LoRa Frequency | AS923-3 |
| Tx Power | LoRaWAN® V1.0.4 - Max 20 dBm |
| | BLE 5.3 - Max 8 dBm |
| Sensitivity | -130 dBm @SF12 |
| BLE Communication Distance | Up to 50m in free space |

### Electrical

| | |
|---|---|
| Power Supply | USB with 5V Adapter |
| Backup Power: | Rechargeable Battery |
| Battery Characteristics | LiFePO4 |
| Operating Current | < 180mA |

### Application

| | |
|---|---|
| IP Rating | IP55 |
| Operating Temperature | -10°C to 60°C |

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