

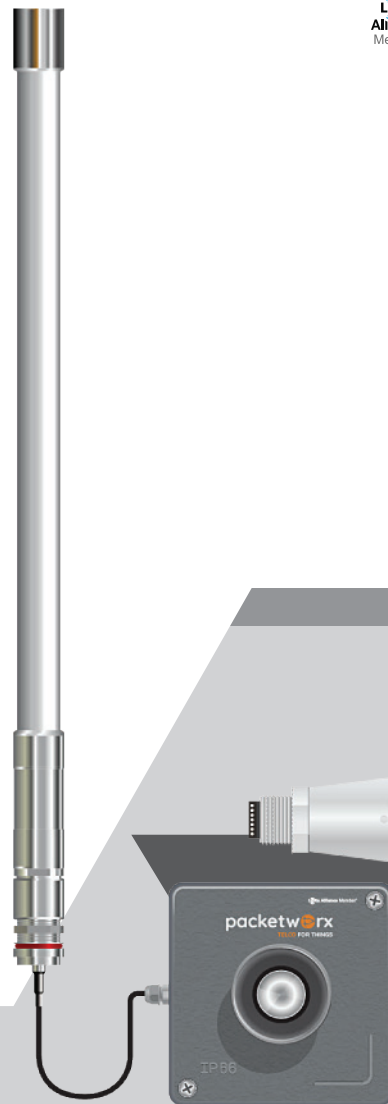
# packetLEVEL

## Ultrasonic Proximity Sensor 10M

**PacketLEVEL 10M** is a high quality LoRaWAN® device integrated with ultrasonic proximity sensor. It is non-contact, highly reliable, easy to install, and maintain device. It is used to measure objects from 50cm-10000cm.

It allows users to remotely monitor the level, distance, volume, and height of objects. It has a backup battery that provides emergency voltage source in the event of power loss. The device sends notification to its users when it gets disconnected. It is designed to operate for indoor and outdoor installations.

**PacketLEVEL 10M** has a wide range of applications. They are most commonly used to sense nearby objects to avoid collision. It also finds application in the retail industry they can detect motion and the correlation between the customer and product they might be interested in. A user is immediately notified of discounts and special offers of nearby products. They are also used for parking availability in places such as malls, stadiums or airports. Other use cases are assembly lines of different industries like food, chemical, machine tools and water level measurement.



### Features

- LoRaWAN® compatible Level Monitor
- Optimized as IoT end-node
- Notification when unit gets disconnected to power source
- Fit for outdoor installation

### Applications

- Water Level Measurement
- Proximity Zone Detection
- People Detection
- Long Range Object Detection
- Height Monitoring
- Auto Sizing
- Automated Factory Systems
- Flood Monitoring

### Technical Specification

#### LoRa

Device	S76S
Integrated MCU	STM32L073xZ
Integrated RF IC	SX1276
Frequency	EU868, US915, AS923
Antenna	External/can be configured
Range	Up to 15k
RF Power	16dBm/25mW

#### Electricals

Input Voltage Rating	5.0VDC (max)
Operating Current	50mA (max)
Operating Voltage	3.3V - On-board Electronics
Power Source	Lithium Thionyl Chloride Battery
Battery Capacity	9000mAh

#### Sensor Specification

HRXL-MaxSonar	MB 7366-100 (50-1000cm range)
Operating Temperature Range	-40°C to +65°C
Measurement Range	50cm to 10m
Accuracy	±1mm
Protection Grade	IP66

#### Mechanical

Dimension	101mm x 101mm x 57mm
Mounting	Two mounting holes

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