

# packetLEAK

The **packetLEAK** device is a simple device used to monitor water leaks to avoid damage or flood. Once the leak is detected, the device will send an alarm or notification via LoRaWAN®.

The alarm or notification will be displayed in the dashboard or other available notification channels such as SMS or email. The device enables reliable water leak monitoring preventing damage on equipment and assets and preventing flood in the infrastructure.



## Features

- Interrupt-based Water Leak Detection
  - Quick Response
  - Reliable Detection Rate
- Various Alarms
  - Dashboard
  - Customizable Alarms (Text, Email, etc.)
- Long battery life
- LoRaWAN® compatible
- Optimized as IoT end-node

## Applications

- Water lines and systems
- Control Room
- Electrical Room
- HVAC

## Technical Specification

### LoRa

Device	S76S
Integrated MCU	STM32L073xZ
Integrated RF IC	SX1276
Frequency	868Mhz
Antenna	Internal
Range	Up to 15k
RF Power	+25dBm

### Water Leak Cable

Brand	
Model	
Cable Diameter	
Core	
Maximum Continuous Operating Temperature	

### Electricals

Power Source	Battery
Battery Voltage	3.6V
Battery Type	ER18505 Lithium-Thionyl Chloride A-type
Battery Capacity	4 Ah
Battery Discharge Voltage	2.0 V
Idle-mode Current <sup>1)</sup>	55 µA
Operating Current <sup>1)</sup>	12mA

### Physical

Operating Temperature	-20°C to +70°C
Storage Temperature	-40°C to +105°C
Protection grade	IP68
Dimension	LoRa Device: 62 x 110 x 33 mm
Setup	Can be: Adhesive, Wall-mounted



Packetworx IoT Technology Hub  
G/F ISquare Building, 15 Meralco Avenue,  
Ortigas, Pasig City, 1605, Philippines

(+632) 7971-9211 | (+63) 917-189-7613

<sup>1)</sup> These values are theoretical and based on datasheets. They will be updated upon actual testing.