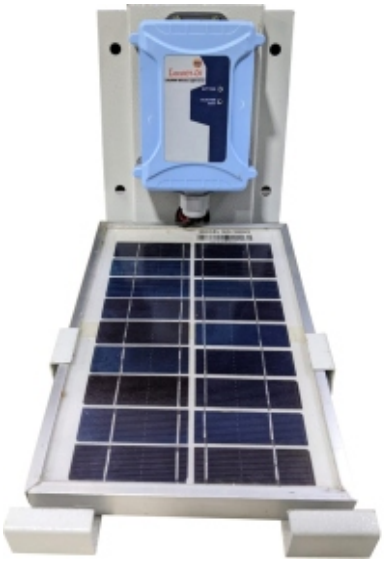
# LoRaIOT -LUX

## LoRaWAN Wireless Light Sensor

**LoRaIOT** is a rugged IOT device which communicates unidirectionally over a LoRaWAN network . The wireless Light sensor is used for measurement of ambient light intensity. The wireless communication is via LoRaWAN protocol at required preset intervals. Low Light Alarm Threshold can be set in the device( to be initially thru serial port) which would send the Alert instantaneously irrespective of the presetintervals.



### Features

- Compatible with LoRaWAN protocol
- 2 x Duracell AA Batteries / Solar Panel with 3.7V 1000mAH Li-ion battery
- Built-in antenna
- Device configuration thru TTL serial port
- Transmits Data Sequence No., battery% and light levelat predefined interval(min 1 minute)
- Compatible with LoRaWAN gateways, Cloud based Dashboard available

### Communication

- Frequency: 865MHz – 867 Mhz
- Transmit Power: 19 dBm
- RF data rate: 37.5 Kbps
- Antenna: Internal Spring
- Peak Transmit Current: 130 mA @ 19 dBm
- Receive Current:<25 mA
- No. of Channels: 10
- Network topology: LoRaWAN Class A

### Input Sensor

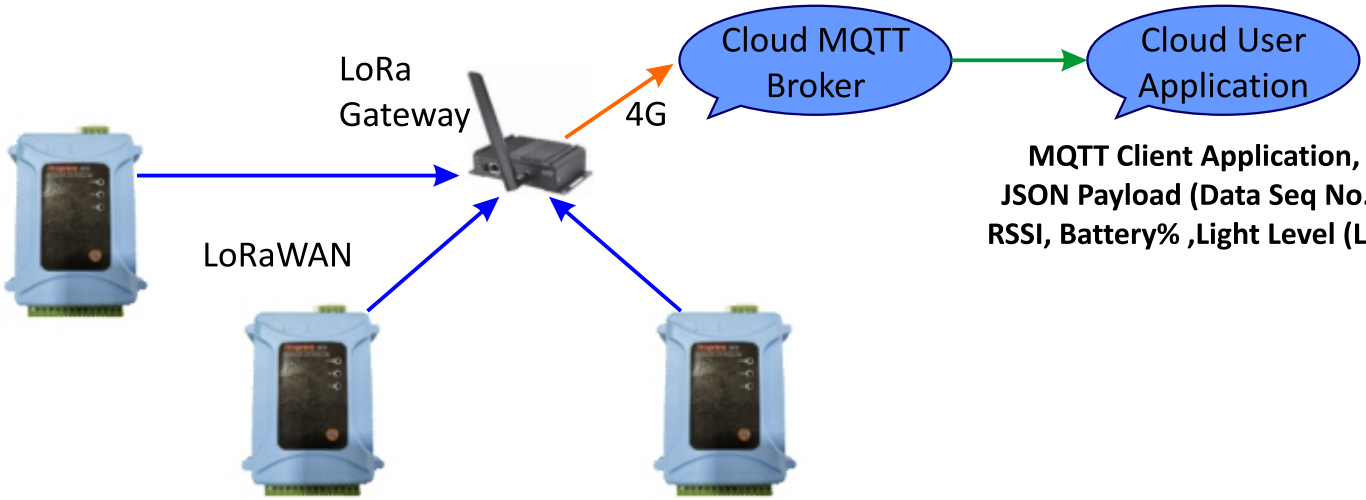
- Digital Light Intensity Sensor Bh1750
- 1- 65535 Lx

### Common Specs

- Aux Power: 10-30 VDC
- Mounting: Backplate / DIN Rail(TS35)
- Dimension: 105 (H) x 75 (W) x 60 (D) mm
- Material: ABS
- IP Rating: IP65
- Operating Temperature: 0- 70 degC

### Use Case Schematic

**Schematic for LoRA based Wireless LUX Sensor for Ambient Light Intensity Measurement**




**Ordering Info:-**

1. LoRaIOT-LUX-B: LoRaWAN Wireless Light Sensor, Battery Powered
2. LoRaIOT-LUX-S: LoRaWAN Wireless Light Sensor, Solar Powered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