

# Ambient Light Sensor

DOC ver.: BQW\_03\_0017.003



## Features

- EU, US frequency support
- LoRaWAN 1.0.3
- Optical sensor LTR-F216A
- 16 to 20 bits measurement resolution
- Wide dynamic range (0.01 to 39K lux) with linear response
- 0 to 50°C operation temperature range

The Ambient Light Sensor utilizes LoRaWAN connectivity to provide measurements of ambient light intensity which matches the human eye's response to light under a variety of lighting conditions.

## Specification

<b>Frequency</b>	868MHz & 915MHz
<b>RF TX power</b>	US: +19dBm EU: +17dBm
<b>Antenna Gain</b>	-2dBi Peak, -5dBi Avg
<b>RF Sensitivity</b>	-135dBm
<b>Battery Type</b>	3.6V ½ AA Li-SOCl <sub>2</sub> , 1200mAh
<b>Battery Lifetime*</b>	Up to 16 months
<b>Average Current</b>	135mA maximum / 100uA minimum
<b>Protocol</b>	LoRaWAN 1.0.3
<b>Operation Temperature</b>	0 to 50°C
<b>Environmental Rating</b>	IP40 equivalent
<b>Dimensions</b>	50mm x 20mm x 50mm
<b>Weight</b>	30g without battery 40g with battery
<b>Sensor</b>	Wide dynamic range (0.01 to 39K lux)
<b>Type Approval</b>	FCC/IC/CE

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## SKU Detail

SKU	Country	Channels	Frequency Band (MHz)
TBAM100-868	Europe	8	EU868 (862~870)
TBAM100-915	USA	16	US915 (902~928)

\* Samples are also available for IN865, AS923, AU915, KR920.