

AURORA XDLSN3 – SMARTBIN

A wireless IoT sensor system

ABOUT

Smartbin uses Time of Flight (ToF) as a distance sensor. It uses 940nm Laser VCSEL for fast and accurate measurement of distance to elements located in front of it. It also equipped with an accelerometer and can be used to detect movements to trigger a reading. The module is equipped with two batteries (CR123, 1550mAh each) ⁽¹⁾.

Connectivity

The module can be configured with SmartMesh IP, Sigfox, LoRaWAN or NarrowBand IoT.

Configurator Environment

When equipped with LoRaWAN, NarrowBand or SmartMesh IP, the unit can be configured Over-the-Air using the Vicotee AURORA Configurator software.



Specifications and information herein are subject to change without notice.

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(1)One battery in radio mainboard, the 2nd battery is equipped in sensor board. The battery life is depended number of measurements per hour, type of radio, range to gateway, temperature and battery self-discharge (typical 1-2% per year).

PARAMETER	Min	Max	Other
Measurement distance	10 cm	2 m	Most accurate between 10 cm and 1.2 m.
High Accuracy Temperature Sensor ± 0.4 °C (max)	-10°C	85°C	
Operating temperature	-20° C	60° C	
Storage temperature	-20° C	40° C	
Supply Voltage	2.6 V	3.5 V	
IP Rating	IP65		IP65
Sleep Power Consumption	4 uA	9 uA	
Power Consumption	-	40 mA ⁽³⁾	
Dimensions ⁽²⁾			70mm(L), 50mm(W), 30mm(D)

ACCELEROMETER	Min	Max
Sensitivity, all g ranges	3.9 LBS/g	256 LBS/g
0 g OFFSET		
0 g Output Deviation from Ideal, X-, Y-, Z-Axes	-	± 35 mg
0 g Offset vs. Temperature for X-, Y-, Z-Axes	-	± 0.8 mg/°C
Power Consumption	0.1 μ A	140 μ A

