

AURORA XDLSN3 – LoRAWAN

A wireless IoT sensor system

PN: 1101001

ABOUT

AURORA XDLSN3 is a modular and easy to customize with any sensors. The module is a twofold unit consist of one radio mainboard and one sensor board which can easily be configured to use all kind of sensors. Both boards have a MCU, they can handle and analyze high speed data on the module.

This radio mainboard is equipped with a CR123, 1550mA battery. Sensor board will also be equipped with the same CR123 battery. The batteries from each board are connected in parallel to extend the battery life. The module ⁽¹⁾ will operate for up to 10 years. ⁽²⁾

LoRa Technology offers a very compelling mix of long range, low power consumption and secure data transmission. The module is configured with LoRaWAN.

Configurator Environment

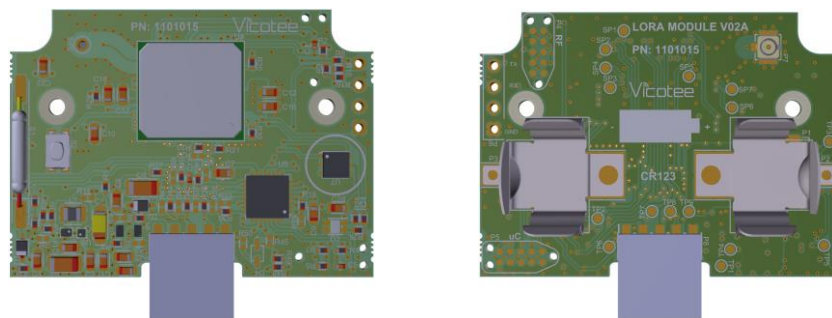
The unit can be configured Over-the-Air using the Vicotee AURORA Configurator software.

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PARAMETER	Min	Max
Storage temperature ⁽³⁾	-20° C	40° C
Operating Temperature	-40° C	60° C
Supply Voltage	2.2 V	3.6 V
Input RF Level	-	10 dBm
Output RF Level	-	14 dBm
Dimension		
Length	-	70 mm
Width	-	50 mm
Depth	-	30 mm

RF TRANSCEIVER SPECIFICATION

PARAMETER	Min	Max
RF sensitivity 125 kHz Bandwidth	-135.5 dBm	-117.5 dBm
RF sensitivity 250 kHz Bandwidth	-133.0 dBm	-114.0 dBm
Sleep mode current	-	1.4 µA
Operating current	-	8 mA



(1) A module is a radio mainboard connects with a sensor board.

(2) Battery life is depended on sensor type, number of measurements per hour, length of the messages, range to the LoRaWAN gateway and battery self-discharge (typical 1-2% per year).

(3) Storage temperature with lithium battery.

