Vicotee

AURORA XDLSN3 – LoRaWAN

PN: 1101283

A wireless IoT sensor system

ABOUT

AURORA XDLSN3 is a modular and easy to customize with any sensors. The module is a twofold unit consists of one radio mainboard unit of either LoRa, SMARTMESH IP, Sigfox and NBIoT and sensor board. 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. [1]

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.

Onboard Sensors

Reed Magnetic Sensor

(1101001)

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

Reed Magnetic Switch [2]	Min	Max
Magnetic Sensitivity	8 AT	12.5 AT
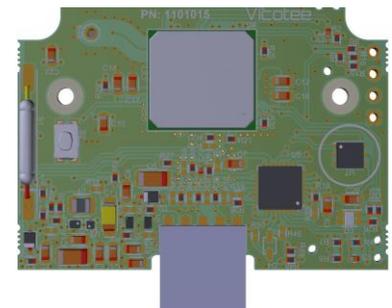
(1) Battery life is depended on sensor type, number of measurements per hour, length of the messages, range to the LoRaWAN gateway and battery self-discharge (typical 1-2% per year).
(2) This radio mainboard comes with a Reed Magnetic Switch sensor.
(3) Storage temperature with lithium battery.
(4) Sensor can measure up to 85°C. Due to lithium battery, the module can operate up to 60°C.

Specifications and information herein are subject to change without notice.