

AURORA XDLSN3 – GPS SENSOR BOARD

PN: 1101051

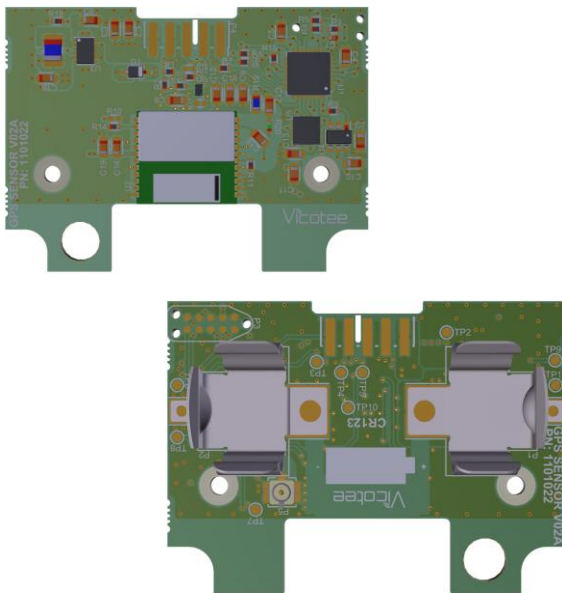
A wireless IoT sensor system

ABOUT

AURORA XDLSN3 – GPS is a sensor board with full GNSS: GPS, GLONASS, BeiDou, QZSS, Galileo and A-GNSS. The board can connect with any radio mainboards of AURORA.

Connectivity

The module can be configured with SMARTMESH IP, Sigfox, LoRa or NBloT radio mainboard.



PARAMETER	Min	Max
Operating Temperature ⁽¹⁾	-40° C	85° C
Storage temperature ⁽²⁾	-40° C	85° C
Temperature Rate of Change	-	±1 ° C
Altitude	-500 m	18,000m
Max. Vehicle Dynamics	-	514 m/s
Supply Voltage	1.75 V	1.85 V
Sleep Power Consumption	4 uA	9 uA
Power Consumption		
Acquisition	-	104 mW
Tracking	-	87 mW
Sensitivity		
Acquisition	-	-148 dBm
Tracking	-	-165 dBm
Accuracy		
Speed	-	0.01 m/s
Heading		0.01 deg
Time to First Fix (90% at -130 dBm)		
Hot start	-	1 s
Cold start		< 27 s
Battery ⁽³⁾	CR123, 1550 mA	

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 µA	140 µA

Specifications and information herein are subject to change without notice.

- (1) Final operating temperature is depending on type of radio to be equipped.
- (2) Storage temperature with lithium battery.
- (3) The sensor is equipped with CR123 (1550 mA). 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).