



BATTERY POWERED WIRELESS IOT SOLUTIONS

MONITOR PREMISES AND ASSETS 24/7

SEN21U00-1000 NB-IoT Ultrasonic SENSOR



Product Features

- SEN21U00-1000 NB-IoT Ultrasonic Sensor provides a simply efficient solution to detect the occupancy in a specified area and distance.
- Long Distance measurement range: up to 4 meter
- Fast response
- 3-year battery life
- Easy installation without any complex and pricey set up cost
- Application: Smart Toilet, Office, Warehouse, Supermarket, etc.

Performance Characteristics

Power	1 x 3.6V C Size Battery
Stand-by Current	<30uA @3.6V
Sensor type	Fast response ultrasonic sensor
Detectable Distance	3cm to 400cm Accuracy: +/- (10 + D x 0.3%)
Typical full field of view (FOV)	60 degree
Data Upload Interval Measurement Interval	- Default 60min. Configurable - Default 15min. Configurable
Alert Conditions	Yes, a alert message to server when measured distance exceed or below threshold
Battery Life	Up to 3 years*

* Conditions: measurement interval at 15min, upload data at every 60 min

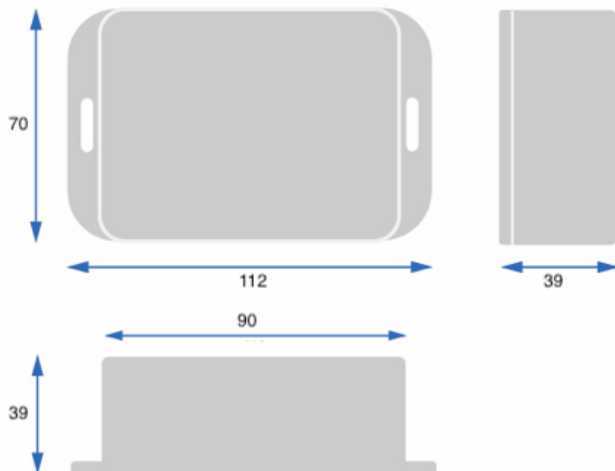
Wireless Characteristics

Wireless Connectivity	LTE Cat NB2 (NB-IoT)
NB-IoT Protocol	3GPP Release 14
Operating Band	3, 8, 20
Uplink Rate	16.7kbps (Single Tone), 62.5kbps (Multi-Tone)
Downlink Rate	25.5kbps (Single Tone), 25.5kbps (Multi-Tone)
Transmit Power	23 dBm +/- 2dB
Sensitivity	-116 dBm
Antenna Type	Built-in Antenna (External Antenna – Optional)

Physical Characteristics

Dimension	L 112mm x W 70mm x H 39mm
Weight	116g
Operating Temperature	-20 to 70°C
Storage Temperature	-20 to 80°C
Storage Humidity Range	<95% RH
Ingress Protection	IP67
Warranty Period	1 Year

Mechanical Dimension



Note: Specification of ultrasonic sensor head in separate document

Ordering partnumber

SENSO8 NB-IoT Ultrasonic Sensor	SEN21U00-1000-0000
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