

Equipment Authorization Division  
Federal Communications Commission  
7435 Oakland Mills Road  
Columbia, MD 21046

## **Model difference letter**

FCC ID: 2AD7T21115102702

Product names: INF-B270-C, INF-B280-C, INF-B285-C

All models listed under *Product names* are identical with one another. Their use cases are slightly different and for commercial reasons they are given unique product names.

The ultrasonic emission has no effect on the low frequency 123-127 kHz transmission.

Sincerely,



October 28, 2015

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Hanna Luukkonen

Date

Sr. QA and Test Engineer

On behalf of Sonitor Technologies AS

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## 1 TECHNICAL OVERVIEW OF THE DIFFERENT MODELS

Product name	PCBs used in the product		Technical data				
	Transmitter Main Board-2	Transmitter Power Board-2	Supplied by PoE	Number of ultrasonic transducers	802.15.4	802.11	Low frequency
INF-B270-C (Gatekeeper)	x	x	x	5	x	x	x
INF-B280-C (Tag configurator)	x	x	x	5	x	x	x
INF-B285-C (Gateway)	x	x	x	5	x	x	x

## 2 INF-B285-C GATEWAY

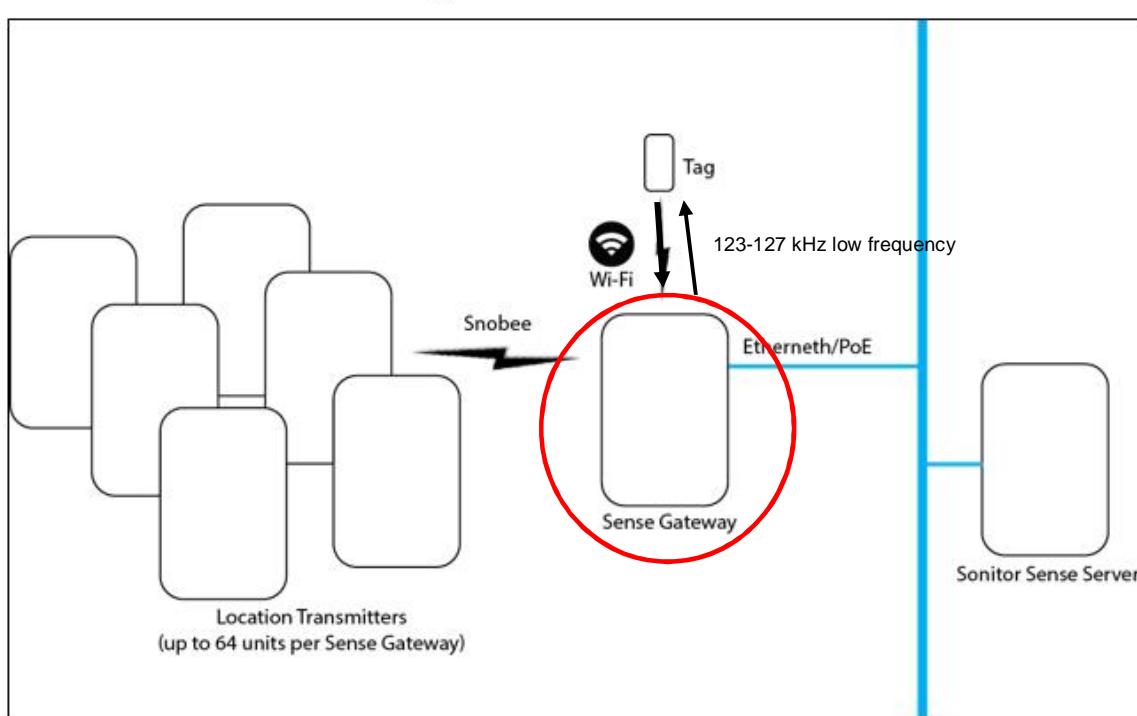
5 ultrasonic transducers, PoE, 802.15.4 and 802.11 radio, 123-127 kHz low frequency transmitter.

The ultrasonic transducers are used to send the ultrasound ID of the equipment to Sonitor Sense tags that receive the ultrasound ID information.

The low frequency transmitter is used to send the low frequency ID of the equipment to Sonitor Sense tags that are equipped with 123-127 kHz receiver.

Gateway units provide the means for the 802.15.4 radio communication between the Sonitor Server Software and the Location Transmitters.

The 802.11 radio module is primarily used to receiving the messages sent by Sonitor Sense tags. The tags send their location information and various status updates using 802.11 radio, and the Gateway only receives the messages. The 802.11 radio can be also used to send Wi-Fi messages.



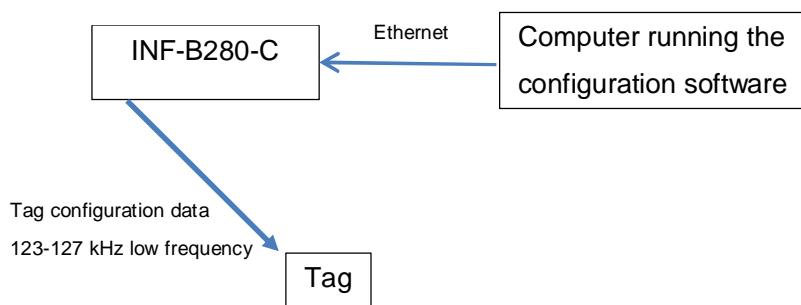
**Figure 1 Sense System configuration (NOTE! Snobee is the Sonitor name for the 802.14.5 radio)**

### 3 INF-B280-C TAG CONFIGURATOR

5 ultrasonic transducers, PoE, 802.15.4 and 802.11 radio, 123-127 kHz low frequency transmitter.

The tags that come with LF receiver can be configured using the 123-127 kHz low frequency radio of INF-B280-C. The low frequency messages contain configuration information, and not location information as in the case of INF-B285-C and INF-B270-C. The process of configuring tags is controlled using a computer running a special configuration software. The configuration software communicates with the Tag Configurator over Ethernet.

Other functionality of INF-B280-C is identical with the INF-B285-C functionality.



**Figure 2 INF-B280-C Tag Configurator**

#### **4 INF-B270-C GATEKEEPER**

5 ultrasonic transducers, PoE, 802.15.4 and 802.11 radio, 123-127 kHz low frequency transmitter.

The Gatekeeper is used to control doors. It is located in the vicinity of the door to be controlled and the communication takes place using TCP/IC protocol. The doors can be set to lock/open as specified in the particular use case.

Other functionality of INF-B270-C is identical with the INF-B285-C functionality.