Sensormatic®

Wireless Device Module (BIX1000)
Installation Guide

BIX1000

Contents

About this guide

This installation guide explains how to install the Wireless Device Module (BIX1000), with the Wireless Device Manager (BIM1000), to synchronize and aggregate data from all Sensormatic-connected devices.

Additional documentation

The following is a list of additional documents related to this installation:

- *Wireless Device Manager (BIM1000) Installation Guide, 8200-1088-03.*

- *Wireless Device Manager (BIM1000) and Wireless Device Module (BIX1000) Setup Guide, 8200-1088-01.*

- *Ultra Post® IV AMS-1012 Wireless Device Module (BIX1000) Cable Kit Installation Guide, 8200-1088-05.*

- *Ultra Post® VI AMS-1014 Wireless Device Module (BIX1000) Cable Kit Installation Guide, 8200-1088-06.*

- *Ultra 1.8 Meter ABS Pedestal Wireless Device Module (BIX1000) Cable Kit Installation Guide, 8200-1088-07.*

- *AMB9010-IPS and AMB-1200 Label Deactivator Controller Wireless Device Module (BIX1000) Cable Kit Installation Guide, 8200-1088-08.*

- *AMS-9050 Controller Wireless Device Module (BIX1000) Cable Kit Installation Guide, 8200-1088-09.*

- *AMS-9040 Controller Wireless Device Module (BIX1000) Cable Kit Installation Guide, 8200-1088-10.*

- *AMS-9060 Controller and AMS-1170-2C/4C Controller Wireless Device Module (BIX1000) Cable Kit Installation Guide, 8200-1088-11.*

- *ZBSMPROE ScanMax® Pro Label Deactivator Controller Wireless Device Module (BIX1000) Cable Kit Installation Guide, 8200-1088-12.*

- *IDKM-10XX/AMK-10XX SuperTag® Detacher Wireless Device Module (BIX1000) Cable Kit Installation Guide, 8200-1088-13.*

- *AMB-2011/AMB-1101/ZBAMB9010 EAS Label Deactivator Wireless Device Module (BIX1000) Cable Kit Installation Guide, 8200-1088-16.*

- *Wireless Device Module (BIX1000) Extension Cable Kit Installation Guide, 8200-1088-14.*

- *AMS-1080 Controller Wireless Device Module (BIX1000) Cable Kit Installation Guide, 8200-1088-17.*

Technical Support

For product bulletins, and the most recent updates to this guide, visit https://sensormaticsecurelogin.com

Training

WARNING: Do not install a Wireless Device Module (BIX1000) unless you have completed the following Wireless Device Manager (BIM/BIX) Training Curriculum modules:

- BIM and BIX Installation Technical Training.

- BIM Configuration Technical Training.

- Optional: SMaaS Overview Sales Training.

About the product

The Wireless Device Manager (BIM1000) is a wireless access point that uses an IEEE 802.15.4 wireless standard to connect to the Wireless Device Module (BIX1000).

The Wireless Device Module (BIX1000), as shown in **Figure 1**, uses the IEEE 802.15.4 wireless protocol to connect to the Wireless Device Manager (BIM1000) to synchronize all in-store Sensormatic-connected deactivation and detection controllers, to collect data and to provide a health status for all the connected devices.

The synchronization between the deactivation and the detection controllers minimizes failed deactivation at the Point-of-Sale (POS) and nuisance alarms at the store exit area. The data collected includes alarms, events, and people-counting statistics. It also collects alarm input responses through an Android tablet device.

Customers can use a desktop browser to log into a TrueVUE reporting platform, or a Shrink Management as a Service (SMaaS) platform, to access historical daily data reports from all the connected devices. The customer can also use an Android tablet device for alarm input responses.

Important: You must install the Wireless Device Manager (BIM1000) before you install the Wireless Device Module (BIX1000).

Features

The Wireless Device Module (BIX1000) has the following features:

- It is auto-discovered by the BIM1000 after commissioning.
- It uses the wireless IEEE 802.15.4 Standard for communications.
- It has external LED status and signal strength indicators.
- It has Micro USB Type B access for commissioning.

Figure 1. BIX1000
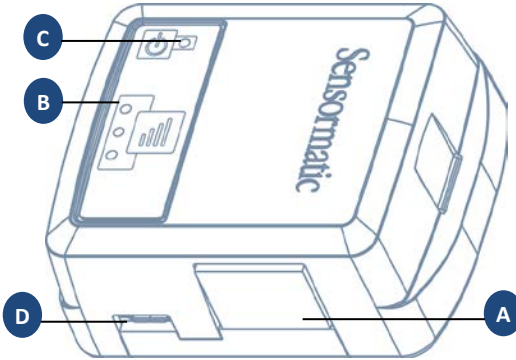
A	RS-485 port	B	Signal strength LED indicators
C	Status LED indicator	D	Micro USB port

Compatibility

The Wireless Device Module (BIX1000) is compatible with the following devices:

- The Ultra Post® IV AMS-1012 Pedestal.

- The Ultra Post® VI AMS-1014 Pedestal.

- The Ultra 1.8 Meter ABS Pedestal.

- The AMS-9060 Controller.

- The AMS-9050 Controller.

- The AMS-9040 Controller.

- The AMS-1080 Controller.

- The AMS-1170-2C/4C Controller.

- The ZBAMB9010 EAS Label Deactivator Controller.

- The AMB9010-IPS EAS Label Deactivator Controller.

- The ZBSMPROE ScanMax® Pro Label Deactivator Controller.

- The AMB-1200C EAS Label Deactivator Controller.

- The AMK-1000 and the AMK-1010 SuperTag® Detacher.

- The IDKM-1000 and the IDKM-1010 SuperTag® Detacher.

- The AMB-2011 Value Pad II Countertop EAS Label Deactivator.

- The AMB-1101 VersaPass II Countertop EAS Label Deactivator.

Cable kit numbers

Table 1 lists the cable kit numbers for the EAS devices that are compatible to install with a Wireless Device Module (BIX1000).

Table 1. BIX1000 cable kit numbers, cable part numbers, and installation guide numbers

Description	Cable kit number	Cable part number	Installation guide
Ultra Post® IV AMS-1012 Pedestal	0352-0710-01	0652-0890-01	8200-1088-05
The Ultra Post® VI AMS-1014 Pedestal	0352-0711-01	0652-0891-01	8200-1088-06
Ultra 1.8 Meter ABS Pedestal	0352-0757-01	0652-0893-01	8200-1088-07
AMB9010-IPS and AMB-1200 EAS Label Deactivator Controller	0352-0696-01	0652-0889-01	8200-1088-08
AMS-9060 Controller and AMS-1170-2C/4C Controller	0352-0695-01	0652-0888-01	8200-1088-11
AMS-9050 Controller	0352-0694-01	0652-0887-01	8200-1088-09
AMS-9040 Controller	0352-0693-01	0652-0886-01	8200-1088-10
ZBSMPROE ScanMax® Pro Label Deactivator Controller	0352-0760-01	0652-0845-01	8200-1088-12
IDKN-10XX/AMK-10XX SuperTag® Detacher	0352-0697-01	0652-0892-01	8200-1088-13
Wireless Device Module BIX1000 Extension Cable Kit	0352-0765-01	0652-0894-01	8200-1088-14
AMB-2011 Value Pad II Countertop EAS Label Deactivator, AMB-1101 VersaPass II Countertop EAS Label Deactivator, and ZBAMB9010 EAS Label Deactivator Controller	0352-0780-01	0652-0898-01	8200-1088-16
AMS-1080 Controller	0352-0789-01	0652-0901-01	8200-1088-17

Tool requirements

You require the following tools to install the Wireless Device Module (BIX1000):

- A #2 Phillips head screwdriver.
- A small slotted screwdriver.
- A drill with a 3/32 inch (2.38 millimeter) drill bit.
- A micro USB cable, 6003-0313-01, to connect to the BIX1000.

Section I: Before you begin

Before you install the Wireless Device Module (BIX1000), ensure that you adhere to the criteria in the following sections.

System requirements

This section outlines the system requirements that you need to install a BIX1000.

Firmware requirements

To support the installation of the BIX1000, download the BIX Firmware Tool from https://sensormaticsecurelogin.com/.

To download the BIX Firmware Tool, complete the following steps:

1. Open a web browser and launch https://sensormaticsecurelogin.com/.
2. Enter your valid log on information, and click **Login**.
3. From the **Tech Support** menu, click **EAS**.
4. Click **Software Download**.
5. Click **BIX Firmware Tool**.
6. To download the software bundle, click the link, and save the file to a local folder on your laptop.
7. Log out of www.sensormaticsecurelogin.com/.
8. On your laptop, rename the file that you saved to an `.exe` file. Click the executable file, and click **Run**.
9. Follow the setup wizard instructions to save the software on your laptop.

    Note: Files save to the following location: `C:\Program Files\Sensormatic\BIX Software Bundle` (Program Files (x86) for 64 bit machines).

Laptop requirements

Your laptop must have a USB port to connect to the Wireless Device Module (BIX1000).

Wiring requirements

For information on wiring requirements, see **Table 1**.

Safety

You must adhere to the following safety instructions when you install a Wireless Device Module (BIX1000):

WARNING: Risk of electric shock

Disconnect all power sources before servicing.

- You must use plenum-rated cables, unless the cables are in raceways.

- Installation of the BIX1000 must comply with the latest national electrical codes, national fire code, and all applicable local codes and ordinances. National or local wiring codes may differ between regions. Adherence to these codes supersedes instructions in this document.

- You must observe and respect all the safety instructions in this installation guide, and the operation of the BIX1000.

- You must mount the BIX1000 only as instructed in this installation guide. Mounting the BIX1000 any other way can affect its operation.

- The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications can void the user's authority to operate the equipment.

- You must install the antennas for this transmitter with a separation distance of at least 20 centimetres (8 inches) from all persons, and must not be co-located or operating in conjunction with any other antenna or transmitter.

Installation prerequisites

To install the BIX1000, you must have the following criteria in place before you proceed:

- Have you completed the training required to commission the BIM1000 and BIX1000?

- Did you download the supporting firmware version for the BIX Firmware Tool?

- Did you download the supporting firmware version for the EAS devices that you are connecting to each BIX1000?

- Is the BIM1000 installed?

- Is the BIM1000 turned on, and programmed with the Personal Area Network (PAN) ID and the Channel? For information on configuring the radio settings, refer to the **Commissioning the Wireless Device Manager** section in the *Wireless Device Manager (BIM1000) and Wireless Device Module (BIX1000) Setup Guide, 8200-1088-01*.

Section II: Installation sequence overview

Figure 2 gives an overview of the complete installation sequence you must follow when you install a BIM1000 and a BIX1000.

You must install the BIM1000 before you install the BIX1000.

Figure 2. BIM1000 and BIX1000 complete installation sequence

Before you begin: Planning and prerequisites	**Step 1: Install the BIM1000**	**Step 2: Install the BIX1000 cable kits**	**Step 3: Commission the BIX1000**	**Step 4: Install and locate the BIX1000**
Confirm all the prerequisites in Section I are complete before beginning	Install the BIM1000. Turn on the BIM1000, and program the PAN ID and the Channel	Install the relevant BIX1000 cable kit, and configure the FAC device	Commission the BIX1000	Install and locate the BIX1000

Step 5: Validate BIM1000 configuration	**Step 6: Validate BIM1000 remote connectivity**
Validate the complete BIM1000 and BIX1000 configuration	Validate the remote connectivity and data transportation of the

Important: This installation guide only describes the following steps in the complete BIM1000 and BIX1000 installation sequence:

- **Before you begin: Planning and prerequisites**
- **Step 3: Commission the BIX1000**
- **Step 4: Install and locate the BIX1000**

Section III: Installing the BIX1000

This section outlines how to install a Wireless Device Module (BIX1000).

Important: You must install the Wireless Device Manager (BIM1000) before you install the Wireless Device Module (BIX1000) to verify that the signal strength is sufficient in the selected mounting location.

Overview of steps

This section gives an overview of the steps to install a BIX1000:

- Step 1: Connecting the BIX1000 cable to the EAS device

- Step 2: Commissioning the BIX1000

- Step 3: Locating the BIX1000

Step 1: Connecting the BIX1000 cable to the EAS device

You must connect the BIX1000 to compatible EAS devices using the appropriate cable kit. The RJ45 end of each cable kit is labelled to indicate which end of the cable connects to the RS-485 port on the BIX1000. For the location of the RS-485 port on the BIX1000, see item A in **Figure 1**.

To connect the BIX1000 to a compatible EAS device, complete the following step:

- Select the EAS device you are installing from **Table 1**, and connect the EAS device to the BIX1000, as described in the relevant installation guide.

  Note: When you connect the EAS device to the BIX1000, the Status LED on the BIX1000 should change to solid green within 20 seconds. For information on the BIX1000 status LEDs, see **Table 4**.

Step 2: Commissioning the BIX1000

Before you secure the BIX1000, you must commission it in order to test different mounting locations and to verify signal strength.

Note: For more information on how to commission the BIX1000, refer to the *Wireless Device Manager (BIM1000) and Wireless Device Module (BIX1000) Setup Guide, 8200-1088-01.*
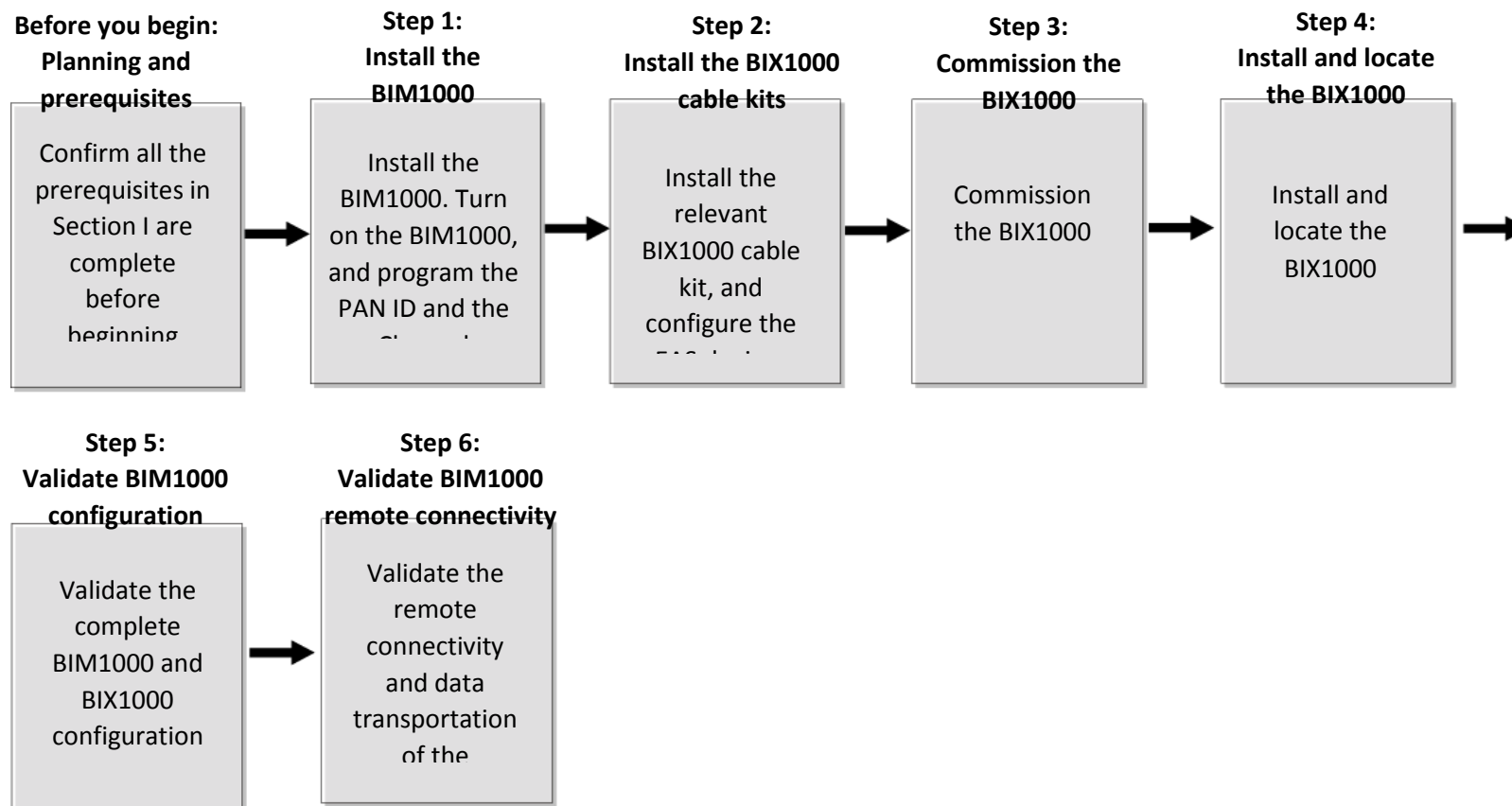
To commission the Wireless Device Module (BIX1000), complete the following steps:

1. If installing the BIX1000EA module, locate the SMA antenna, 3411-0024-01, from the BIX1000 installation kit, and screw the SMA antenna into the SMA connection port on the BIX1000EA.

Figure 3. SMA antenna to SMA connector on the BIX1000EA
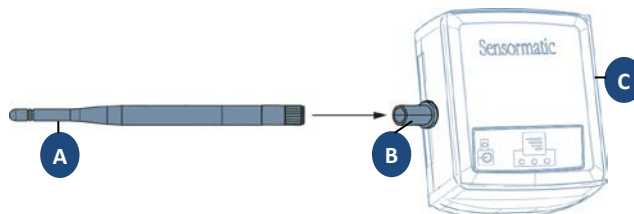
A	SMA antenna, 3411-0024-01	B	SMA connection port
C	BIX1000EA module		

2. Connect the micro USB cable, 6003-0313-01, to the BIX1000 micro USB port. For the location of the USB port, see item D in **Figure 1,** on page 4. Connect the opposite end of the micro USB cable to the USB port on your laptop.

   Note: The laptop powers the BIX1000 through the USB port.

3. Wait 15 seconds for the BIX1000 boot sequence to complete.

4. When the BIX1000 boot sequence completes, launch the BIX Firmware Tool you downloaded pre-installation.

5. Update the firmware on the BIX1000 by completing the following steps:

   a. In the Controller Download pane, click **Browse**, and then select the supporting firmware version for the BIX1000.

   b. Click **Start Flash Download**.

   Note: If an error occurs during the download, you must close the BIX Firmware Tool, disconnect the device, and then repeat steps 2 to 6.

6. After the flash download, complete the following steps to establish communication between the BIM1000 and the BIX1000:

   Important: In the following steps, ensure you save the changes to each individual parameter before you change the next parameter.

   a. Open the BIM Web Launch Tool, and from the **BIM Configuration** menu, click **Radio Settings**. Record the values in the **PAN ID** and **Channel** fields, and then close the BIM Web Launch Tool.

   b. Return to the **BIX Firmware Tool** window.

   c. In the **PAN ID** field enter the PAN ID value you recorded for the BIM1000, and click the **Antenna** icon to save the changes. For the location of the save button, see **Figure 4**.

   Note: The PAN ID is limited to the hex characters A-F and 0-9. The PAN ID you set for the BIX1000 must match the PAN ID set for the BIM1000 to establish communication between the two devices.

   d. In the **Channel** field, enter the Channel value you recorded from the BIM1000, and click the **Antenna** icon to save the changes.

   Note: You can set a value from 11 to 26 for IEEE 802.15.4 radio frequencies.

   ⚠ **Regulatory restriction:** Do not use channel 25 or channel 26 in North America.

   e. In the **Tx Power** field, enter the Tx power value for the country of use, as shown in **Table 2**. Click the **Antenna** icon to save the changes.

Table 2. BIM1000 and BIX1000 TX power

Device	TX power, North America	TX power, Europe
BIM1000	197 (20dB)	70 (10dB)
BIX1000	197 (20dB)	94 (10dB)
BIX1000EA	220 (20dB)	85 (10dB)

7. Optional: In the **Location** field, enter a description of the location of the BIX1000, for example, East Entrance. Click the **Antenna** icon to save the changes.

   Note: Entering a location description helps to locate devices after installation.

Figure 4. BIX Firmware Tool window

Antenna icons, click to save parameters
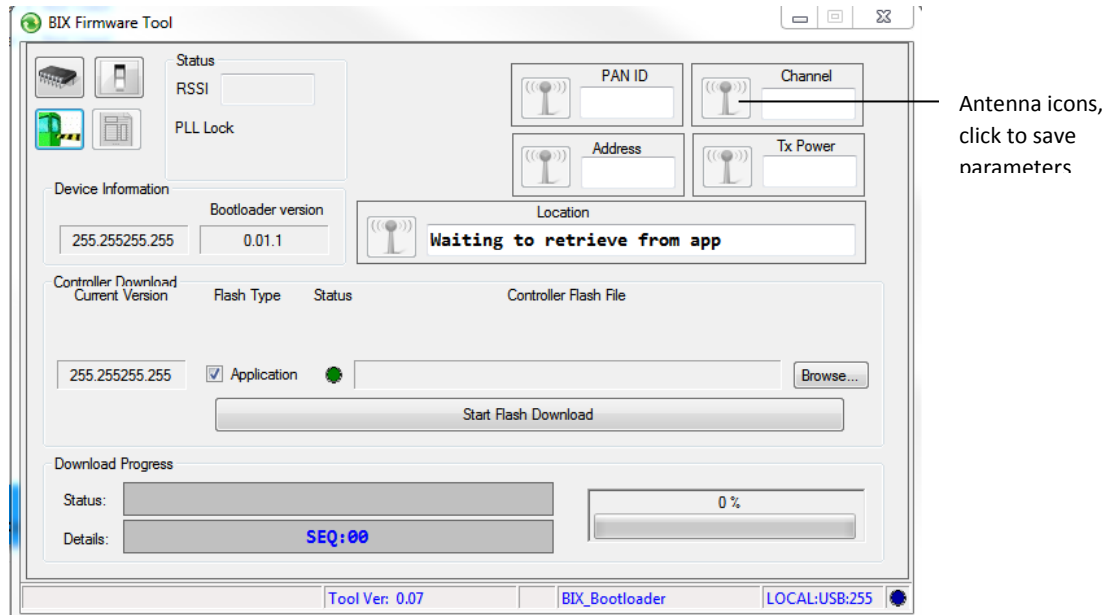
8. With the BIX1000 connected to your laptop, temporarily place the BIX1000 in the area where you are installing it to validate the signal strength. For information on the BIX1000 signal strength indicators, see **Step 3: Locating the BIX1000**.

   Note: When validating the signal strength, ensure you are within the coverage range of the BIM1000.

9. Close the BIX Firmware Tool.

   Important: You must close the BIX Firmware Tool before you disconnect the micro USB cable from the BIX1000. If you do not close the BIX Firmware Tool first, the drivers for the BIX1000 can lock and the app may not connect to the BIX1000. If this occurs, you must restart your laptop to resolve the issue.

10. Disconnect the micro USB cable, 6003-0313-01, from the BIX1000.

Step 3: Locating the BIX1000

Adhere to the following guidelines when determining the installation location of the BIX1000:

- Do not directly hold the BIX1000 module because your body and hand can detune the antenna.

- The BIX1000 can be orientation sensitive at the periphery of its range to the BIM1000.

- The wireless communication between the BIM1000 and the BIX1000 solution is most effective when the modules are within a direct line of sight. Avoid placing the BIX1000 modules in metal enclosures or deep underneath counters. Placing the BIX1000 on a higher mounting location can extend its signal strength.

Important: If you connect the BIX1000 to an AMS-9060 controller, an AMS-9050 controller, or an AMS-9040 controller, do not secure the BIX1000 to the case of the controller.

To locate the BIX1000 correctly, complete the following steps:

1. After you connect the BIX1000 to the EAS device using the appropriate cable installation kit, determine the location of the BIX1000.

   Notes:

   - You must place the BIX1000 a minimum of 2 feet (24 inches) from the BIM1000.

- **Table 3** lists the expected maximum line of sight range from the BIM1000 module to the BIX1000 module for each region. The maximum line of sight ranges are based on environments free of obstructions and interference. The range can significantly degrade from the specified maximums.

Table 3. Expected maximum line of sight ranges from the BIM1000 to the BIX1000

Modules	Region	Expected maximum line of sight range
BIM1000 to BIX1000	EU	76.2 meters (250 feet)
BIM1000 to BIX1000EA	EU	106.7 meters (350 feet)
BIM1000 to BIX1000	US	106.7 meters (350 feet)

2. Optional: If you need to locate the BIX1000 further away from the EAS device for improved signal reception or for mounting purposes, install the BIX1000 Extension Cable Kit, 0352-0765-01, as described in the *Wireless Device Module (BIX1000) Extension Cable Kit Installation Guide, 8200-1088-14*.

   Note: Use the BIX1000 Cable Extension Kit to relocate the BIX1000 module up to 3.3 meters (10 feet) away from the EAS device to which you are connecting the BIX1000.

3. Ensure that the status LED on the BIX1000 is green. For information on the status LED descriptions, see **Table 4**.

Table 4. BIX1000 status LED description

BIX1000 status LED color	BIX1000 status description
No status LED displaying	Powered off or in Boot Loader Mode
Status LED displaying green	Operating correctly
Status LED flashing amber quickly	Attempting communication with an EAS device
Status LED flashing amber slowly	The Phase Lock Loop (PLL) is unlocked, and indicates a synchronization error
Status LED flashing red	There is no communication between the BIX1000 and the BIM1000

4. To ensure strong signal strength, select one of the following options:

   - Ensure the signal strength LEDs on the BIX1000 display at least one green LED. If it does not, move the BIX1000 until it displays one or more green LEDs. For information on the signal strength indicators on the BIX1000, see **Table 5**.
   - Connect the BIX1000 to your laptop and wait for the BIX1000 boot sequence to complete as described in steps 2 to 5 on page 9, and then use the BIX Firmware Tool to determine the Received Signal Strength Indicators (RSSI) value.

Table 5. BIX1000 signal strength LED description

BIX1000 signal strength LED color	RX signal strength description
No green signal strength LEDs displaying	Signal strength is below -85 decibels
One green signal strength LED displaying	Signal strength is -85 to -75 decibels
Two green signal strength LEDs displaying	Signal strength is -75 to -60 decibels
Three green signal strength LEDS displaying	Signal strength is above -60 decibels

5. When you identify an ideal mounting location, locate the alcohol pads, 1600-0033, from the BIX1000 Installation Kit, 0352-0733-01, and use the alcohol pads to clean the surface area of the mounting location.

6. Remove the release liner from the adhesive pad on the BIX1000, and secure it to the correct location near or on the EAS device. For more information on a specific EAS device, refer to the relevant installation guide listed in **Table 1**.

7. Optional: If you need to secure the BIX1000 using the screws supplied in the installation kit, complete the following steps:

   a. Locate the BIX1000 back cover plate, 0404-1244-01, from the BIX1000 Installation Kit, 0352-0733-01.

b. Use the BIX1000 back cover plate as a template, and mark the location of the pilot holes on the mounting surface.

c. Remove the BIX1000 back cover, and using a drill with a 3/32 inch or 2.38 millimeter drill bit, drill two mounting holes in the mounting surface.

d. Insert the two screws, 5810-2042-120, from the installation kit into the BIX1000 back cover, and into the two mounting holes in the mounting surface.

e. Ensure that the two mounting screws are recessed below the plastic surface, and secure the back cover to the mounting surface.

    Note: The screw holes on the BIX1000 back cover plate are symmetrical. The other features on the BIX1000 back cover plate are not symmetrical because they accommodate the micro USB and the RS-485 ports.

8. Secure the BIX1000 to its mounting surface.

Specifications

Electrical

Power supply

Primary input ....
..../ 5V – 24VDC input, Sync and RS485 through RJ45 8 pin header with LEDs for RS485.

Environmental

Operating temperature.. .... 0°C to 50°C (32°F to 122°F)

Relative humidity .... 0 to 90% non-condensing

Enclosure Rating ....UL94 V-O

Evaluated for altitudes less than 2,000 meters (6,561.68 feet)

Mechanical

Material:.. ....ABS

Color: .... Light grey

Dimensions: .... 58.6 mm X 46.7 mm X 24.9 mm

Weight (approx.): .... 32.66 g (0.072 lbs)

Dimensions

Figure 5. BIX1000 dimensions
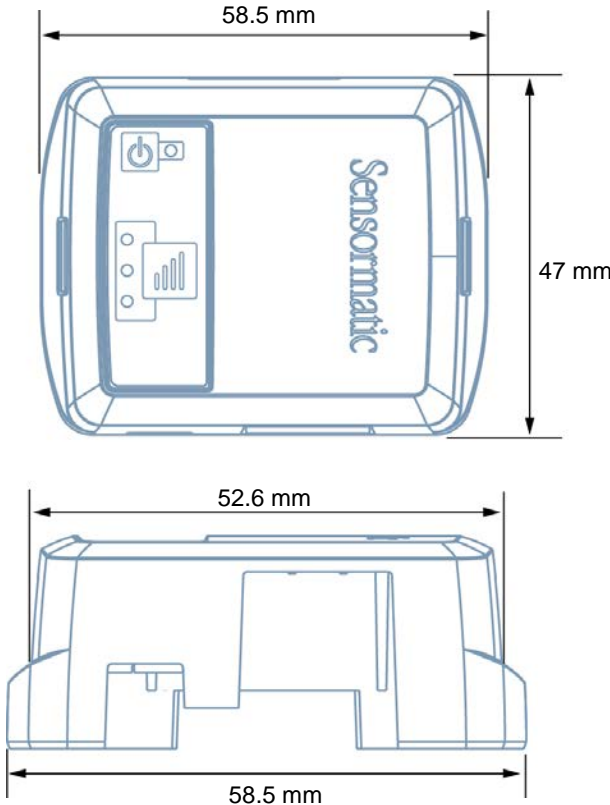
Declarations

Model: BIX1000

Regulatory information

Radio

Frequency of operation

Type.. BIX1000
Frequency band.. .2400-2483.5 MHz
Maximum power ....10 mW in the EU
....100 mW in NA

If frequency is selectable for your model, select only the country in which you are using the device. Any other selection will make the operation of this device illegal.

Approved antennas

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada.

Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

This radio transmitter *IC: 3506A-BIX1000* has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio *IC: 3506A-BIX1000* a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Pulse/Larsen W1027

Polarization ....Vertical
Composite gain .... 3.2 dBi
Impedance .... 50 ohms

Pulse/Larsen W1038

Polarization ....Vertical
Composite gain ....3.8 dBi
Impedance .... 50 ohms

L-Com model HG2403RD-RSF

Polarization ....Vertical
Composite gain ....3.0 dBi
Impedance .... 50 ohms

Antenova model SRCW004

Polarization ....Linear
Composite gain .... 2.5 dBi
Impedance .... 50 ohms

FCC ID: BVCBIX1000

This device complies with part 15 of the FCC Rules. *This device complies with Industry Canada's licence-exempt RSSs.*

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

México NOM 121: BIX1000

La operación de este equipo está sujeta a las siguientes dos condiciones:

1) es posible que este equipo o dispositivo no cause interferencia perjudicial y

2) este equipo debe aceptar cualquier interferencia, incluyendo la que pueda causar su propia operación no deseada.

INTERNATIONAL ID: BIX1000

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EMC ....................................................  ...........................................................................................47 CFR, Part 15
.......................................................................................................................................................EN 300 328
......................................................................................................................................................EN 301 489-1
......................................................................................................................................................EN 301 489-3
.....................................................................................................................................................EN 301 489-17
........................................................................................................................................................ RSS 210
Safety......................................................................................................................................... UL/EN 60950-1
.....................................................................................................................................................CSA C22.2.60950-1
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EQUIPMENT MODIFICATION CAUTION: Equipment changes or modifications not expressly approved by Sensormatic Electronics, LLC, the party responsible for FCC compliance, could void the user's authority to operate the equipment and could create a hazardous condition.

See **About this guide** on page 3.

Other declarations