



Remote Monitoring for Business



ALTA Wireless Sensor Adapter

General Description

The [ALTA® Wireless Sensor Adapter](#) allows long-range ALTA Wireless Sensors to communicate with local or online wireless sensor monitoring systems by connecting to a Microsoft® Windows® PC via a USB connection.

You get easy plug and play (PnP) support for PC use. If the PC has an active Internet connection and you want to use it with iMonnit Software, install the free Monnit Wireless Sensor Adapter gateway application to pass the sensor data to iMonnit.

With iMonnit, you can easily configure your network, view collected sensor data, and set alarms or alerts, all from any browser. You can completely configure and customize at a sensor, local, or client-wide network level in iMonnit. Custom IoT system designers can use the ALTA Wireless Sensor Adapter to integrate ALTA Wireless Sensors into their other wired and wireless IoT platforms or networks.

Use your wireless sensors locally to collect and store sensor data on your PC with iMonnit Express. You can export sensor data in a CSV format spreadsheet, and iMonnit Express can send SMS text and email alerts if the host computer has an active Internet connection.

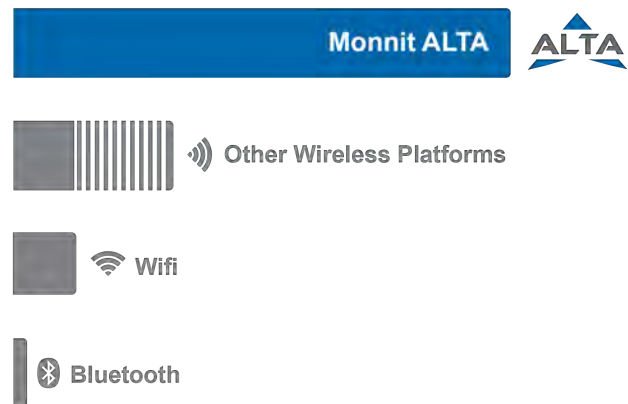
Enjoy reliable, wireless monitoring of your facilities or specific industry applications with Monnit Wireless Sensor networks.

ALTA Wireless Sensor Adapter Features

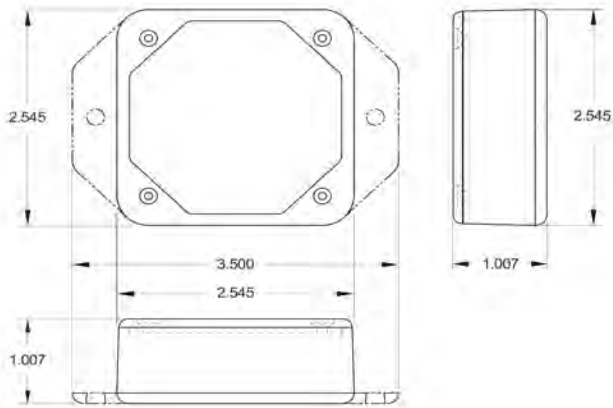
- Wireless range of 1,200+ feet through 12+ walls¹
- 900 MHz Frequency-Hopping Spread Spectrum (FHSS), 868 and 433 MHz Frequency Agile
- Best-in-class frequency interference immunity
- Encrypt-RF™ Security (Diffie-Hellman Key Exchange + AES-128 CBC for sensor data messages)
- Powered by USB
- Use with both iMonnit Basic, Premiere, or Express
- Standard FTDI driver so no driver installation is required
- External USB cable allows it to be positioned for improved communication range
- Programmable Heartbeat control
- Supports up to 100 wireless sensors per USB
- Compatible with Windows 11, 10, 8, and 7

¹ Actual range may vary depending on environment.

Wireless Range Comparison



ALTA Wireless Sensor Adapter Dimensions



Example Applications

- Facilities / Building Operations
- Pest Control / Extermination
- Restaurants / Food Service
- Server Rooms / Data Closets
- Pharmaceutical / Labs
- Heating and Cooling
- Agriculture Monitoring
- [Additional applications](#)

ALTA Wireless Sensor Adapter Specifications

USB

Type:	USB 2.0 Full Speed Bus Standard
Software Version:	4.0.0.0 or later
Software Compatible Platforms:	Microsoft Windows 11, 10, 8, and 7
Bus Reported Device Description:	USB Serial Port (COM X)
Memory Capacity:	10,000+ sensor message logging based on host computer resources.

Power

Power	Powered through USB (+5.0VDC standard)
Maximum Power Required:	0.5 W (5V @ 100mA)

Mechanical


Enclosure	ABS plastic
Dimensions	3.5 in. x 2.545 in. x 1.007 in.
Weight	4.97 ounces

Environmental

Operating Temperature	-40°C to +85°C
Operating Humidity	5 to 85% RH (non-condensing)
Operating Altitude (non-pressurized)	-15.2 to 1,982 m (-50 to 6,500 ft)
Storage Altitude (non-pressurized)	-15.2 to 3,048 m (-50 to 10,000 ft)

Wireless

Wireless Range	1,200+ ft. non-line-of-sight ¹
Security	Encrypt-RF™ (256-bit key exchange and AES-128 CTR)

Certifications	 <p>All Products Comply with RoHS (IEC 63000:2016+A1:2022) 900 MHz product: FCC ID: ZTL- G2SC1 and IC: 9794A-G2SC1 868 and 433 MHz product: EN 300 220-2 V3.1.1 (2017-02), EN 300 220-2 V3.1.1 (2017-02), and EN 62368-1:2014.</p>
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¹ Actual range may vary depending on environment.

Caution / Notice:

Monnit commercial-grade products are designed for applications in ordinary environments (normal room temperature, humidity, and atmospheric pressure). Do not use the ALTA Wireless Sensor Adapter and ALTA Wireless Sensors under the following conditions, as these factors can deteriorate the product characteristics and cause failures and burnout.

- Corrosive gas or deoxidizing gas - chlorine gas, hydrogen sulfide gas, ammonia gas, sulfuric acid gas, nitric oxide gas, etc.)
- Volatile or flammable gas
- Dusty conditions
- Under low or high pressure
- Wet or excessively humid locations
- Places with salt water, oils, chemicals, liquids, or organic solvents
- Where there are excessively strong vibrations
- Other places where similar hazardous conditions exist

Use these products within the specified temperature range. Higher temperature may cause deterioration of the characteristics or the material quality of this product.



Monnit Corporation

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