MULTITECH®

MultiTech OneBox™
Smart Building

MultiTech OneBox™ Smart Building kit simplifies the process of evaluating a LoRaWAN® network in a smart building application by including all the tools needed to report insights from multiple wireless LoRa® sensors.

Building owners and managers are focused on cost containment, compliance, sustainability and improved tenant experience. OneBox Smart Building brings together a targeted mix of LoRa-enabled MultiTech wireless sensors and an easy-to-deploy LoRaWAN network by including a pre-provisioned Conduit® AP access point. Paired with a fully integrated device management console to automate sensor provisioning and configuration and an intuitive dashboard to provide instant access to critical building information using customized data visualization and sensor notifications.

One box. One vendor. Value on day one.

BENEFITS
- Evaluate LoRaWAN performance in smart building applications
- Demonstrate return on investment prior to large-scale deployments
- Actionable sensor data in real time
- Simple scalability from a trusted vendor

FEATURES
- Quickly deploy and customize a LoRaWAN solution
- Monitor conditions using a variety of battery-powered LoRaWAN sensors
- Complimentary access to Device Management Console
- Cellular connectivity service included

www.multitech.com/onebox

Get wise about your building.

MultiTech LoRaWAN wireless sensors deliver critical asset information in real time so you understand exactly what's going on and can react quickly when needed.

Conduit® AP Access Point

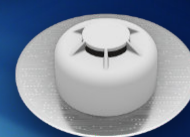**Push Button Sensor**

Leak Detection Sensor

Movement Sensor

Device Management Console

Door & Window Sensor

Air Temp & Humidity Sensor

What's in the OneBox™ Kit

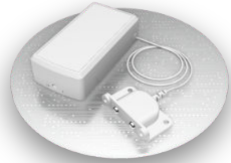| Sensor / Item	Description	Applications
Push Button Sensor	The single push button sensor can be used as a panic button, personal emergency response system (PERS), remote control, or other remote push button applications. When the button is pressed, an alert is sent to the wireless network.	• Silently alert security guards to emergencies or panic situations • Install a Personal Emergency Response System (PERS) for seniors and healthcare facilities • Use as a general remote control
Leak Detection Sensor	The water leak detection sensor uses a water sensor probe to detect the presence of water. When the presence of water is detected, an alert is sent to the wireless network.	• Sump pump failure • Plumbing fixture leaks • Burst water pipe monitoring • Data Center leak monitoring • Water intrusion monitoring
Movement Sensor	The acceleration-based movement sensor uses an internal accelerometer to detect movement of an asset. When motion is detected that exceeds a certain threshold, an alert is sent over the wireless network.	• Asset protection and monitoring • Building security • Shock sensing • General movement and acceleration sensing
Door & Window Sensor	The door/window sensor uses a magnet to detect open/close events for doors, windows, or other applications that use a magnet to detect close proximity.	• Monitor door and window activity • Protect assets stored in cabinets and lock boxes • Secure rooms and areas of the building
Air Temp & Humidity Sensor	The air temperature and humidity sensor uses air flow to measure temperature and humidity levels. If the temperature and/or humidity rises above or falls below the configured thresholds, an alert is sent over the wireless network.	• Monitor temperature and humidity levels • Detect heating or cooling system failures • Prevent condensation, mold, and odors in unconditioned areas
Conduit® AP Access Point	The MultiTech Conduit® AP access point conveniently provides deep in-building connectivity and improved performance for smart building applications.	• Collect data from wireless LoRaWAN sensors • Forward sensor data to device management console using Ethernet or cellular connection • FREE SIM includes 90-day cellular data plan KORE
Device Management Console	The free web-based device management console provides a fully integrated device management console for the automatic provisioning, monitoring, and configuration of sensors in the field. It also provides visualizations and advanced notification features that allow for full sensor-to-cloud solutions.	CONSOLE • Create charts and visualizations for your data • Set up alerts and notifications • Reconfigure sensors in the field

Download the mobile app for easy device setup, simply scan the QR Code shown here:

Apple iOS

Android

SENSOR SPECIFICATIONS OVERVIEW

Item / Type	Description				
Sensor Type	Push Button	Leak Detection	Movement	Door & Window	Air Temp & Humidity
Part Number	RBS304-1-US	RBS301-WAT-US	RBS301-ABM-US	RBS301-DWS-US	RBS305-ATH-US
LoRa® Wireless					
Frequency Band (Mhz)	902-928				
Channel Plan	US915				
Protocol	LoRaWAN 1.0.2 compliant Class A & C				
Antenna	Internal				
Power					
Battery Powered	Yes				
Battery Type	1 X CR123				
User Replaceable	Yes				
Battery Life	200,000+ transmissions, 5-10 year depending on configuration				
Physical Description					
Physical Dimensions (LxWxH)	2.04 x 0.75 x 3.05 inches	1.46 x 0.75 x 2.81 inches	1.46 x 0.75 x 2.81 inches	1.46 x 0.75 x 2.81 inches	2.30 x 2.30 x 1.25 inches
Physical Weight	111g				
Enclosure Type	IP20 Plastic				
Mounting	Belt Clip, Lanyard or Wall Mount	Wall Mount (Screw or Adhesive)			
Environmental					
Operating Temperature	-30 to +70 °C				
Operating Humidity	0 – 90% (non-condensing)				
Storage Temperature	-40 to +100 °C				
Sensor Attributes					
Publish Type	Over-the-air configurable. Periodic, Threshold or Publish on change				
Periodic Interval	Over-the-air configurable from 1 minute to 127 hours				
Temperature Range	-	-	-	-	-40 to +100 °C
Temperature Accuracy	-	-	-	-	+/- 0.1°C
Humidity Range	-	-	-	-	0 - 100%
Humidity Accuracy	-	-	-	-	+/- 1.5 %RH
Acceleration	-	-	2g – 16g	-	-
Certifications					
Compliance	FCC Part 15				
Warranty	2-Years / www.multitech.com/legal/warranty				

Actual performance speeds may be affected by a variety of attributes such as cell tower distance, data loads, packet sizes, etc.
See user guide for more information.

ORDERING INFORMATION

MultiTech OneBox

Model	Description	Region
MT1BX-915-BLD-KO	OneBox Smart Building. Includes 915 MHz, LTE Cat 1 mPower Programmable Access Point with five smart building sensors, external LoRa antenna, Ethernet cable, power supply and SIM card	North America

Features and specifications are subject to change without notice.

Services & Warranty

MultiTech's comprehensive Support Services programs offer a full array of options to suit your specific needs. These services are aimed at protecting your investment, extending the life of your solution or product, and reducing total cost of ownership. Our seasoned technical experts, with an average tenure of more than 10 years, can walk you through smooth installations, troubleshoot issues and help you with configurations.

Technical Support Services

At MultiTech, we're committed to providing you personalized attention and quality service while providing you a quick response to your product support needs. We have several options of support for you to choose from.

For additional information on Support Services as well as other service offerings, please contact your MultiTech representative or visit www.multitech.com/support.go

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