Smart Building Kit

Turning Data into Actionable Insight

Fast | Flexible | Futureproof

Milesight, Actility and Akenza design and develop Smart Building Kit that employs IoT strategies into users' insights in smart building. The Kit will help facility operators, building operators and building managers connect with the right place, at the right time, with the right data.

What Challenges Do You Face?

For Facility Operators

They are anxious by the time they need to invest in monitoring their indoor air quality in a manual and often inefficient way.

For Building Operators

They are worried they do not have a simple and automatic solution to protect their buildings from water leaks and its consecutive damages.

For Building Managers

They are troubled since they don't know the fluctuations in temperature and humidity over time, and how to regulate the heating/ventilation equipment to ensure people's well-being.

What Will You Get?

Surpass Cellular with Wireless IoT
in Range, Cost Efficiency, and Sensor Battery Life

Automated and Always Connected
Everything IoT Gets Ready

Smarter and Seamless
than You Ever Imagined

Smart Building Kit

Milesight Smart Building Kit provides products and services covered with comprehensive plans for your buildings. Monitoring and management of indoor air quality, water leakage, security are all based on IoT that holds a great potential of visibility and efficiency via a combination of data-driven processes. It only takes a few steps and time spending to prove your PoC with much benefits in return such as increase of transparency around your IoT data governance and management.
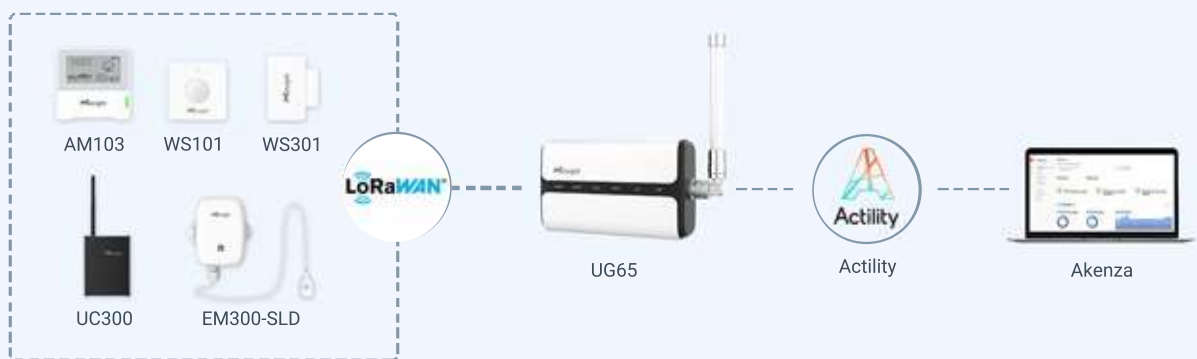
Purchase this Smart Buidling Kit online here:
https://market.thingpark.com/milesight-smart-building-kit.html

"All kits were very well boxed and labelled. A great package."

— Jon Lockwood, General Manager of OneTemp Pty Ltd

AM103   WS101   WS301

LoRaWAN

UC300   EM300-SLD

UG65   Actility   Akenza

Simple to Install.
Easy to Use

Driven by Real Needs
and Requirements

Convert Your Idea with
Digital Innovations

Smart Building Kit Specification Overview

Item	Description	Applications
1 x WS101 Smart Button	WS101 smart button sensor supports different alerts depending on various press actions and can be used in emergency alarm system, remote control or other remote push button applications.	• Easy to be carried out by the seniors and the disabled or to be installed anywhere • Remote control like lights or curtains in Smart Office
1 x WS301 Magnetic Contact Switch	WS301 sensor uses a magnet to detect the open/close status of door/window or something has been moved. It's wire-free and can be easily mounted on the doors, panes, cabinets, etc.	• Entry/fire door monitoring • Asset protection in the cabinets or boxes • Suitable for offices, homes or factories applications
1 x AM103 IAQ Sensor	AM103 is a 3-in-1 ambience monitoring sensor including the measurement of temperature, humidity and CO_2 concentration and can display indoor status visually on the E-ink screen in real-time and transmit to network server using LoRaWAN® technology.	• Monitor temperature, humidity and CO_2 levels • Indicate CO_2 levels via traffic light or emoticon on the E-ink screen • Suitable for office or school indoor air quality monitoring
1 x EM300-SLD Leak Detection Sensor	EM300-SLD sensor can detect the presence of liquids by a small probe based on the conductive principle. Besides, EM300-SLD equips temperature and humidity sensors to monitor the indoor and outdoor environment.	• Pipe leak monitoring • Basement flooding detection • Machine room monitoring
1 x UC300 IoT Controller	UC300 IoT controller equips with multiple data interfaces including digital inputs, relay outputs, RS232, RS485, analog inputs and PT100 RTD input, which can convert legacy sensors to work with LoRaWAN® network and control devices.	• Acquire data from legacy sensors and send via LoRaWAN® networks • Control the on/off status via relay outputs or RS485 Modbus commands
1 x UG65 Semi-Industrial LoRaWAN® Gateway	UG65 semi-industrial indoor LoRaWAN® gateway provides stable connectivity between sensors and mainstream network servers or Milesight IoT cloud.	• Collect data from LoRaWAN® sensors • Forward data to Milesight IoT Cloud or mainstream network servers via Ethernet or Wi-Fi

Item	Description	Applications
ThingPark Enterprise	ThingPark Enterprise is the leading LoRaWAN® private networking solution that streamlines the digitalization of your business processes by connecting your most valuable assets with efficiency.	• ThingPark Enterprise dashboards provide key operational insights & alarm management. • Your LPWAN gateways and devices are managed by a fully geo-redundant platform with 24/7 supervision.
Akenza	Akenza is the self-service IoT platform allowing you to build great IoT products and services with value. It connects, controls, and manages IoT devices all in one place. With simple and secure management of smart devices, connectivity, and data, the akenza platform enables the rapid introduction of innovative, smart solutions.	• The low-code features of akenza enable you to start your IoT case immediately, even without coding skills. The ultimate IoT stack for your smart solution.

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Smart Building Sensors

Model	WS101	WS301	AM103	EM300-SLD
Sensor Type	Push Button	Magnetic Contact Switch	Temperature, Humidity, CO_2	Temperature, Humidity, Leak
Milesight D2D	√	√	/	/
Hardware Interfaces				
Screen	/	/	2.13 Inch E-ink	/
LED	√	√	√	√
Buzzer	√	/	/	/
Reset Button	√	√	√	√
Tamper Button	/	√	/	/
Configuration	NFC	NFC	NFC	NFC
Physical Characteristics				
Power Supply	1 × 1650 mAh ER14335 Li-SOCl$_2$ Battery	1 × 1200 mAh ER14250 Li-SOCl$_2$ Battery	2 × 2700 mAh ER14505 Li-SOCl$_2$ Batteries	1 × 4000 mAh ER18505 Li-SOCL$_2$ Battery
Battery Life	Over 3 Years	Over 5 Years	Over 3 Years	Over 10 Years
Dimension	50 × 50 × 18 mm	Sensor: 50.5 × 31 × 18.5 mm Magnet: 30 × 13.5 × 10 mm	68 × 65 × 20.5 mm	105.6 × 85.3 × 27 mm
Operating Temperature	-30 to +60 °C	-20°C to +60°C	-20 to +60 °C (E-Ink Screen: 0 to +40 °C)	30°C to +70°C
Ingress Protection	IP30	IP20	IP30	IP67
Installation	On Flat Surfaces with Screws or 3M Tapes			

UG65 Semi-Industrial LoRaWAN® Gateway

LoRaWAN®

Chip	SX1302
Antenna	2 × Internal Antennas + 1 × 50 Ω N-Female External Connector
Channel	8 (Half/Full-Duplex)
Package Forwarder	Semtech UDP PF, Basics Station, Loriot, Chirpstack, etc.
Network Server	Support

Hardware Interfaces

Ethernet Port	1 × 10/100/1000 Mbps (PoE PD)
Wi-Fi Interface	IEEE 802.11 b/g/n, 2.4 GHz, Support AP and Client Mode
Console Port	1 × Type-C
LED Indicators	1 × POWER, 1 × STATUS, 1 × LoRa, 1 × Wi-Fi, 1 × LTE, 1 × ETH
Reset Button	1 × RST
Built-in	Watchdog, RTC, Timer

Physical Characteristics

Power Supply	1. DC Jack Connector for 9-24 VDC Power Supply 2. 1 × 802.3 af PoE Input
Operating Temperature	-40°C to +70°C
Ingress Protection	IP65
Dimension	180 x 110 x 56.5 mm
Installation	Desktop, Wall or Ceiling Mounting

About Milesight

Milesight is a fast-growing tech company offering smart IoT and video surveillance products with a focus on AI, 5G, Sensing and IoT technologies since 2011. With improved sensing capability and advanced IoT insights, we help customers worldwide optimize their business operation in an efficient and sustainable way. In collaboration with a global network of distributors and system integrators, we are committed to building open ecosystems and accelerating IoT strategies to the next level.

Milesight IoT delivers products including Cellular & 5G Industrial Routers and LoRaWAN® Products to offer complete device-to-cloud-solutions for markets of smart office, smart building and smart agriculture.

About Actility

Actility is a world leader in Low-Power Wide-Area Networks (LPWAN) industrial-grade connectivity solutions for the Internet of Things. Actility provides ThingPark®, the leading IoT Mediation Platform and network technology to deploy, operate and maintain public and private wireless IoT networks within a unified, scalable and versatile network infrastructure. It's used by thousands of companies and tier-1 global operators, demonstrating 10+ years of field experience in all regions of the world. With a strong background in large-scale project delivery, it offers you all-inclusive industrial grade service and full deployment flexibility with 24/7 monitoring, geo-redundancy,

About akenza.io

Akenza is the self-service IoT platform allowing you to build great IoT products and services with value. It connects, controls, and manages IoT devices all in one place. With simple and secure management of devices, connectivity, and data, the akenza IoT platform enables the rapid introduction of innovative solutions.

Akenza was developed to help organizations build their smart solutions on a solid technological foundation without reinventing the IoT wheel. The akenza IoT platform can be seen as a bridge between the physical world and the cloud, allowing you to pierce through the barrier between devices and software quickly.