

The Milesight logo is positioned in the top left corner of the slide. It features the word "Milesight" in a white, italicized sans-serif font. The background of the slide is a blue-tinted cityscape at dusk or dawn, with the Empire State Building as a prominent central feature. In the top right corner, the tagline "Better Inside, More in Sight" is written in a smaller white font, accompanied by a white hamburger menu icon consisting of three horizontal lines.

Better Inside, More in Sight 

TEMPERATURE AND HUMIDITY SENSORS IN MULTIPLE FIELDS

FOR FOOD SAFETY, PHARMACEUTICAL SECURITY, AND BEYOND

MILESIGHT

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01 INTRODUCTION

ABOUT MILESIGHT

Milesight offers multi-potential sensing products to capture the most meaningful data and makes it accessible across diverse applications. It innovatively applies emerging technologies such as AI, 5G, and IoT to distinct use scenarios. With a commitment to making sensing matter, Milesight quickly responds to customer-specific challenges and collaborates with an expanding network of partners to deliver unique data value. It is determined to make real, positive impacts in smart buildings, intelligent traffic, intelligent security, smart cities, and beyond.



AIoT

Digital Sensing
Products Provider



600+

Employees



2000+

Distributors and
System Integrator Partners



120+

Serves to 120+
Countries and Regions



60M+

Annual Turnover of
60+ Million USD



2

2 Product Lines: Video
Surveillance and IoT



MILESIGHT TEMPERATURE & HUMIDITY SERIES' FOCUSES

Make Everything Manageable and Safe in Various Fields



Product Quality and Safety Assurance

Monitoring temperature and humidity safeguards product quality, preventing spoilage or degradation, crucially in sectors such as food and pharmaceuticals.



Help Businesses Ensure Compliance with Regulations

Global compliance with regulations, especially in industries such as food and pharmaceuticals, ensures the safety and quality of products throughout the entire production and consumption process.



Risk Management and Enhance Productivity

Early detection of temperature and humidity variations allows for proactive risk mitigation, minimizing product waste and machinery downtime.

HOW MILESIGHT CAN HELP YOU MEET REQUIREMENTS

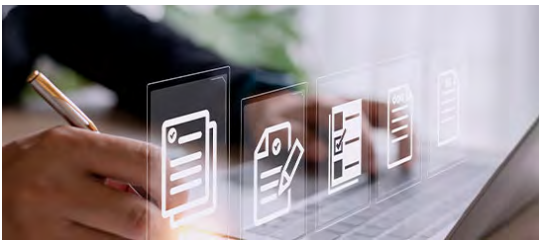


Help Business Meet HACCP Requirements

Milesight Temperature and humidity sensors assist businesses in complying with Hazard Analysis and Critical Control Points (HACCP) requirements, which are essential for ensuring food safety. It helps maintain the conditions necessary to prevent food contamination and ensure product quality.

Certified to EN12830 Standard

Milesight sensors are certified to the EN12830 Standard, which is ideal to be used in the transportation, storage, and distribution of chilled, frozen, or deep-frozen goods such as food and medical products. Certification to the EN12830 Standard is important as it preserves food safety, meets regulatory requirements, builds trust and confidence, and optimizes operational efficiency.



21 CFR Part 11B Record

Compliance with 21 CFR Part 11B ensures that the sensor meets the requirements set forth by the United States Food and Drug Administration (FDA) for electronic records and electronic signatures. This regulation is crucial for industries where data integrity and security are paramount.

FDA-approved Food Materials

The sensor is constructed using FDA-approved materials suitable for food contact, ensuring that it does not introduce any harmful substances into the food processing environment. This is essential for maintaining food safety and complying with FDA regulations regarding materials that come into contact with food.



02 MILESIGHT SMART TEMPERATURE & HUMIDITY SENSOR SERIES

FREQUENTLY-USED TEMPERATURE & HUMIDITY MODULE IN THE MARKET

Milesight



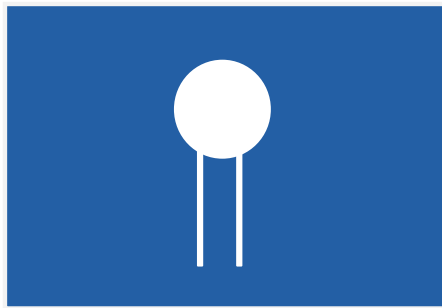
PT100 Temperature Sensor

PT100 is a resistance temperature detector (RTD) sensor based on **platinum resistance**, with a wide temperature range (**-200°C to 800°C**)



TS30x

EM500-PT100

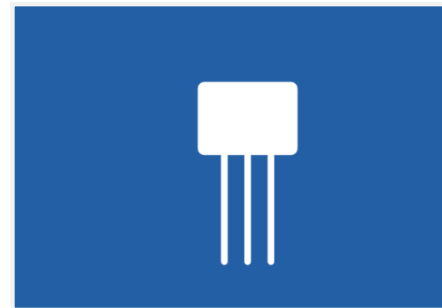


NTC

NTC temperature sensors are thermistors that exhibit a negative temperature coefficient, **meaning their resistance decreases as the temperature rises.**



WT Series



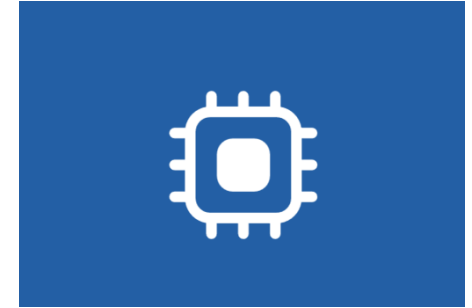
DS18B20

Digital temperature sensor with 1-Wire interface, **accurate measurements, and support for multiple sensor connections.** Suitable for various applications.



TS101

TS201



Digital Sensor

High-precision digital temperature & humidity sensors that offer high accuracy, long-term stability, and **digital output for easy interface.**



WT 201 EM320-TH EM300-TH WS203



AM Series

TEMPERATURE & HUMIDITY MONITORING SENSORS' *Milesight* CATEGORIES IN THE MARKET

Standard Temperature

Temperature monitoring range: -55°C to 125°C (-55°F to 257°F) , suitable for various applications such as commercial buildings, agriculture, and production. Meets remote wireless monitoring needs.



EM320-TH EM300-TH TS101 TS201

High Temperature

These sensors are suitable for high-temperature environments, such as high-temperature production and processing processes. The temperature range can reach from -50°C to 800°C (-58 °Fto 1472°F) .



TS30x EM500-PT100

Low Temperature

These sensors are applicable in various environments, such as laboratories, hospitals, cold chains, and experimental settings. The temperature range can go as low as -200°C (-328 °F).



TS30x EM500-PT100

Thermistor

These sensors utilize NTC thermistor temperature sensors with a temperature range between -20°C and 60°C(-4°Fto 140 °F) . They are commonly integrated with thermostat products to monitor ambient temperature.



WT Series

Digital Temperature & Humidity

Digital temperature and humidity sensors are typically capable of real-time reading of ambient temperature, providing various levels of Indoor Air Quality (IAQ) detection parameters.



AM Series

Motion & TH

Motion & temperature/humidity sensors combine occupancy and environmental monitoring in settings like offices, warehouses, factories, hospitals, labs, and restaurants.



WS203

MILESIGHT EM SERIES

Milesight

Environmental Sensing: Temperature & Humidity Monitoring



EM300-TH Temperature & Humidity Sensor

Serving as an integrated temperature and humidity sensor enabling environmental monitoring.



EM320-TH Temperature & Humidity Sensor

Serving as an integrated temperature and humidity sensor while supporting food-grade applications.



EM500-PT100 Platinum Temperature Sensor

Industrial-grade platinum temperature sensor covering extreme temperature ranges, from freezing -200°C to molten-hot 800°C .



MILESIGHT EM300 SERIES

Temperature & Humidity Monitoring

Temperature & Humidity Sensor EM300-TH

- IP67 rated for harsh environment
- High sensitive sensor (SHT3x)
- **Anti-UV and inflame-retarding** material make it well-adapted in harsh environment
- Data storage and retransmission for secured data
- Up to 10 years battery life



Transportation



Outdoor Environment

Temperature & Humidity Sensor EM320-TH

- FDA-approved food contact material
- IP67 rated for harsh environment
- Higher sensitive sensor (**Sensirion SHT41**)
- Data storage and retransmission for secured data
- Provide dual mounting versions for more applied scenarios



Smart Cold Chain



Smart Pharmacy



Smart Factory



Smart Refrigeratory

EM500-PT100 PLATINUM TEMPERATURE SENSOR

Experience unparalleled temperature measurement with our platinum-based sensor. Designed to withstand extreme heat, it delivers stable and precise readings even in temperatures ranging from freezing -200°C to molten-hot 800°C. Built for various applications, from industrial factories to cutting-edge laboratories, this device ensures accurate results in any demanding environment.

Features

- **Corrosion resistance cable** and **multiple probe** options
- **3-wire connection** for high precision
- **IP67 waterproof enclosure** for harsh environment applications
- **Built-in 19000 mAh** replaceable battery and work for **10 years without replacement**
- Equipped with **NFC** for easy configuration
- Compliant with standard LoRaWAN® gateways and network servers
- Quick and easy management with Milesight IoT Cloud solution
- Ultra-wide-distance transmission up to line of sight of 10km

Milesight



Applications



MILESIGHT TS SERIES

Temperature Monitoring

Milesight



TS30x **LoRaWAN® Temperature Sensor**

High precise PT100 Temperature sensor offers dual versions while supporting selecting choosing from 3 different types of temperature probe and one magnetic sensor for integration.



TS201 **LoRaWAN® Temperature Sensor**

Equipped with DS18B20 probe which supports self-calibration with low cost but high efficiency solution.



TS101 **Insertion Temperature Sensor**

Insertive temperature sensing solution supporting contacting directly with food, pharmacy, and related materials while monitoring the status continuously.



TS301/TS302 TEMPERATURE SENSOR

TS30x is a professional **visualized RTD temperature sensor** with extendable connecting lines and different detecting probes including **A-class, B-class, and food-grade temperature probes** and a **magnetic sensor for options**.

Probe	 A-Class Food Grade	 B-Class	 Magnetic Contact Switch Sensor + Temperature Probe	 A-Class
Measurement Range	-40°C ~125°C	-40°C ~125°C	/	-50°C ~500°C
Application	 Food Production, Food Services	 Pharmaceutical Storage, Cold Chain	 Refrigerator, Cold Chain	 Industrial

✓ Flexibility & Reliability

- **Dual Versions** by Requirements
- **Three Types** of Temperature Probes and one Magnetic Sensor for Collections
- **Automaticly Warning** if Detect **Abnormity**
- **High IP65 Protection** and Provide **Dust Plug** in Adapting to Harsh Environment
- Flexible & Robust Structural Design for Higher Durability
- 5~15 Years Battery Life

✓ Data Effectiveness & Security

- **High Data Security with Data Storage, Retrievability and Retransmission.**
- Up to **10,000 Sets** of Historical Data Records
- **Efficient Data Export in PDF for Anti-Tampering**
- **Meet HACCP and 21 CFR Part 11B Requirements**
- **Certified for EN12830 Standard**

TS301



TS302

TS201 June. TEMPERATURE SENSOR

The TS201 is a compact temperature sensor. Its IP67 waterproof enclosure makes it ideal for applications in cold storage and various industrial processes. Experience precise temperature sensing with the versatile and durable TS201 sensor.

Applications



Warehouse



Supermarket



Hospital



Restaurant

Milesight



Glass Bead Thermal Buffer Bottle

Applications

- Provide **DS18B20** temperature probes (-55 ~ 125°C) with M12 interface
- Battery-powered with up to 3-year Battery Life
- Support optional **glass bead thermal buffer bottle** for insulation blocking and stable detection
- IP67 waterproof enclosure with high-quality probes enabling high stability and compatibility
- Support multiple mounting methods like magnetic mounting, 3M glue mounting and wall mounting for options

TS101 INSERTION TEMPERATURE SENSOR

Temperature Monitoring

High Accuracy & Data Integrity

- **Contact Detection** With **Plug & Play** Probe
- Data Storage(1200)
- Data Retransmission
- Data Retrievability

High Professionalism

- **IP67** Water Proof
- **IK10** (20 joules)
- **Anti-corrosion**
- **Anti-phosphine**

Up to 10 Years Battery Life



Haystack



Wine cellar



Granary



The Benefits

- Lower Manual Cost
- Wire-free Detection
- No Omission of Data
- Instant Alarming
- Unified Data Management



Tobacco storage



MILESIGHT INDOOR AIR QUALITY SERIES

Indoor Temperature & Humidity Monitoring

Milesight



AM102
2-in-1 IAQ Sensor



AM102L/AM103L
2/3-in-1 IAQ Sensor



AM103
3-in-1 IAQ Sensor

Key Environmental Parameters



Temperature



Humidity



CO₂



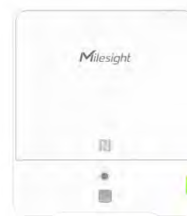
AM307
7-in-1 IAQ Sensor



AM308
8-in-1 IAQ Sensor



AM319
9-in-1 IAQ Sensor



AM300L
7/8/9-in-1 IAQ Sensor



Temperature



Humidity



CO₂



TVOC



Barometric
Pressure



PIR



Light



PM2.5 & PM10



HCHO



O₃

MILESIGHT WT SERIES

The efficient management of HVAC systems in energy-saving-oriented buildings is of utmost importance due to the significant impact it has on **reducing high-cost energy usage**. Recognizing this challenge, Milesight has developed a range of innovative products and solutions specifically designed to monitor and control HVAC systems, **enabling higher efficiency and better productivity for buildings**.



➤ Milesight HVAC Management

- Radiator Management
- AC, heat pumps, boilers, and PTAC Management

➤ Benefits

- **Monitor** the status **remotely**
- **Control** systems **automatically**
- **Customizable** settings & scheduling

03 SMART TEMPERATURE & HUMIDITY SENSORS IN APPLICATIONS

HOW DOES IOT WORK IN TEMPERATURE & HUMIDITY MONITORING?



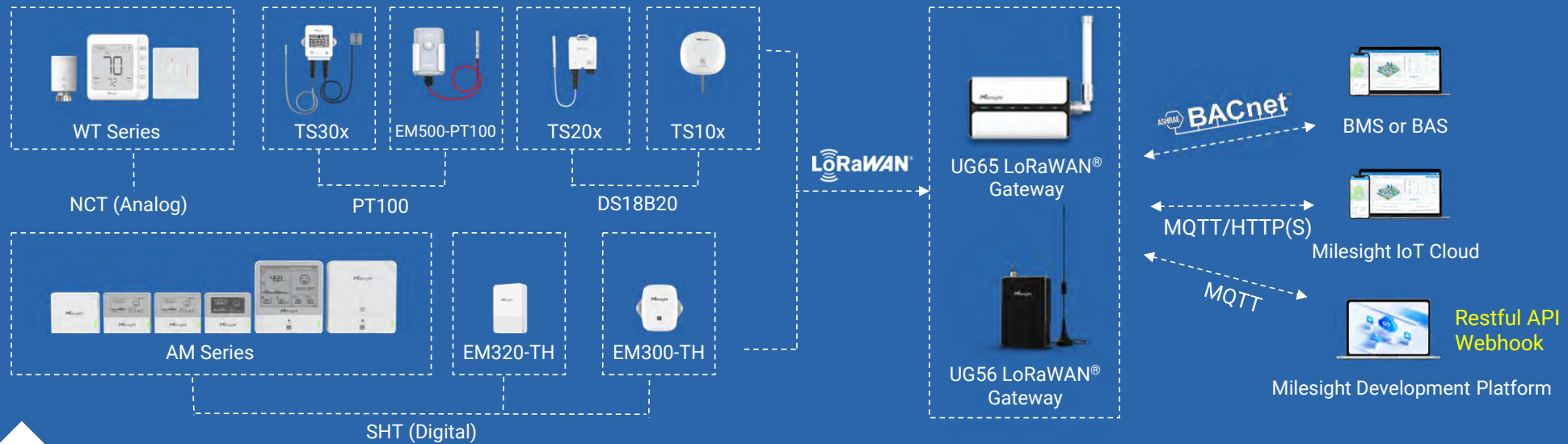
IoT in temperature & Humidity monitoring involves integrating sensors that collect temperature & humidity data, **transmitting the data through communication protocols to cloud-based platforms, storing and processing the data** in the cloud, and **providing remote access for real-time monitoring and analysis**. It enhances precision, efficiency, and proactive management in temperature-sensitive environments or processes.



Tips

- High accuracy products with wide detection range
- Enabling greater interoperability while combining with other devices
- Installing IoT based sensors while combining with occupancy, daylight sensors and others.

MILESIGHT TEMPERATURE & HUMIDITY MONITORING SOLUTION



> Accuracy and Precision

- High accuracy with low mistaken rate while covering a wide detection range and allows for selections in different applications

> Standard & Certification

- Help Business Meet HACCP Requirements
- Certified to EN12830 Standard
- 21 CFR Part 11B Record
- FDA-approved Food Materials

> Reliability and Durability

- Work reliably over a long period and withstand various environmental challenges

> High Integration with Different Solutions

- Cooperate well and smoothly with other devices such as connecting with lighting and occupancy systems
- Milesight provides open solutions (Restful API & Webhook) for flexible development of applications and make connections

MILESIGHT SMART TEMPERATURE & HUMIDITY MONITORING SENSORS BY APPLICATIONS

Milesight



Advanced Pharmaceutical & Food Cold-chain Applications

- Requiring high-precision sensors
- Traceable data and data security
- Compliance with regulations or get certificated
- Visualized Monitoring in pharmaceutical storage



Supermarkets & Logistic Temperature & Humidity Monitoring

- IP level is compliant with harsh environment
- Probe allows for self-calibration
- Support flexible mounting methods



Industry & Agricultural Applications

- IP level is compliant with harsh environment
- Wide detection range is necessary



Ambient Temperature & Humidity Monitoring

- *AM319 Works with WELL
- WT series functions in ambient environmental detection and adjustment

Medical Conditions Monitoring during Transport with Isometric Bag

TS301



TS301



Location

Prague, Czech Republic



Background & Challenge

The project aims to monitor and control the conditions of transport of medical materials such as blood and medicines. IoT technology has been utilized to easily track data in real time.



Solutions & Products

Our solution guarantees optimal transport of medical equipment, which is key to its quality and patient safety. It uses the Miesight TS301 Temperature Sensor and LoRaWAN® technology to monitor the temperature in real time. In case of unfavorable conditions, the system immediately alerts the responsible person, which enables a quick response. Historical data recording is used for reports and analysis.



Benefits

Our solution reduces the risk of damage to medical equipment during transport, increases patient safety and helps meet regulatory authority standards.

Miesight

Miesight Partner



JoTio Tech

Monitoring in Supermarkets



EM500-PT100-868M



EM300-TH-868M

©shutterstock.com-Linda_288/m2m German



Milesight Partner

m2m Germany GmbH



Project Location

Austria



Background & Challenge

- there hasn't been an automatic temperature monitoring yet
- defect refrigerators were not detected immediately
- risk of poor food quality or bacteria due to improper/too warm storage



Solutions & Products

- Installation in >150 branches of a leading supermarket brand in Austria: refrigerated counters and shelves, freezers
- >3000 pcs. EM300-TH-868M LoRaWAN® Outdoor temperature and humidity sensor
- >1,000 pcs. EM500-PT100-868M LoRaWAN® industrial temperature sensors



Benefits

- keeping the food fresh and safe for consumption
- comply with standards and regulations
- being able to optimize the refrigerating system to save energy
- detect malfunctions early

Building Efficiency and Comfort Management



Milesight Partner

Resource Data Management Asia Sdn. Bhd.



Location

Kuala Lumpur, Malaysia



Background & Challenges

Our client is an international conglomerate with its headquarters situated in the heart of Kuala Lumpur, Malaysia. The influx of employees working in the office raised several issues that need to be addressed.



Solutions & Products

We have deployed a wireless solution utilizing Milesight sensors and gateway to address the challenges faced by our client. The solution work in tandem with our implemented EMS system to optimize energy consumption and maximize occupant comfort. Below are the list of Milesight item utilized in this project:

- AM107-915M (Indoor Ambience Monitoring Sensor)
- EM300-TH-915M (LoRaWAN Temperature and Humidity Sensor)
- EM500-CO2-915M (LoRaWAN CO2 Sensor)
- UC100-915M (LoRaWAN Converter)
- UG65-915M (LoRaWAN Gateway/Receiver)
- WS202-915M (LoRaWAN PIR & Light Sensor)

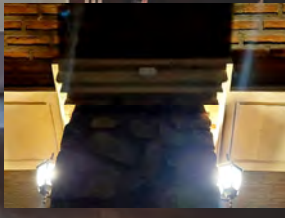


Benefits

Implementing these sensors and integrating into our EMS system offers several benefits:

- Enhanced Occupant Comfort:
- Improved Indoor Air Quality:
- Energy Efficiency:
- Data-Driven Decision Making:

Smart Agriculture in Vineyard



Milesight Partner

SYSCOM

ECOSAT
TECHNOLOGY SOLUTIONS

Milesight



Location

Chihuahua, Mexico



Background & Challenge

Vineyard managers are exploring more possibilities to meet the growing economic and environmental challenges as they are tasked with increasing productivity, optimizing irrigation, reducing costs and conserving water. They are beginning to turn to smart agriculture to manage and monitor the entire operation of the storage environment in a more efficient manner.



Solutions & Products

We installed EM300-TH Temperature & Humidity Sensor, WS301 Magnetic Contact Switch, UG67 Outdoor Gateway, IoT Controller to monitor temperature status in fermentation tanks, in cold rooms, the status of plants and door open/close status.



Benefits

- Real-time monitoring and alerts

With Milesight LoRaWAN products, we can receive alerts generated through temperature status and doors open/close status.

- Easy deployment

Milesight devices are easy to install and we can install it in almost any scenarios, such as access control, automation and many more.

*For more details, please check SYSCOM Youtube video:
<https://www.youtube.com/watch?v=uoQJoCSLT9M>

Central Heating Control in Municipal Housing



"We wanted a scalable system to be able to monitor our apartments, but we also wanted to achieve flexibility for the tenant to be able to control the landlord"

Fredric Asp - Installation and Operations Manager at Svenbo"

Milesight Partner

Kubang AB



Location

Svenljunga, Sweden



Background & Challenge

"Svenbo" is 100% owned by Svenljunga Municipality and is responsible for the operation, maintenance and service of approximately 568 rental apartments, geographically spread throughout the municipality.

"We wanted a scalable system to be able to monitor our apartments, but we also wanted to achieve flexibility for the tenant to be able to control the landlord." – Fredric Asp, installation and operations manager at Svenbo



Solutions & Products

Svenbo currently uses Milesight EM300-TH to measure values in rental apartments and third-party temperature sensor in the supply line, as well as Wideco's IoT platform WISION© for collection of measurement values and visualization.



Benefits

"The outcome of our investment in IoT technology exceeded our expectations. By implementing sensors, we were able to quickly get real-time values and take appropriate action." – Fredric Asp, installation and operations manager at Svenbo

IOT DAY

Jönköping Konsert & Kongress at Elmia,
Elmiavägen 15, entrance 6.



Milesight

WHAT

In our IoT initiative, municipalities, Region Jönköping County, municipal companies, municipal associations and other stakeholders in Jönköping County use a common IoT platform from which to develop services.t

✓ Jönköping, Sweden

✓ Jönköping Konsert & Kongress at Elmia,
Elmiavägen 15, entrance 6.

✓ May 30, 2024

04 MILESIGHT IMPACT AWARDS



Milesight Impact Awards

Honoring Customer Stories that Make Sensing Matter



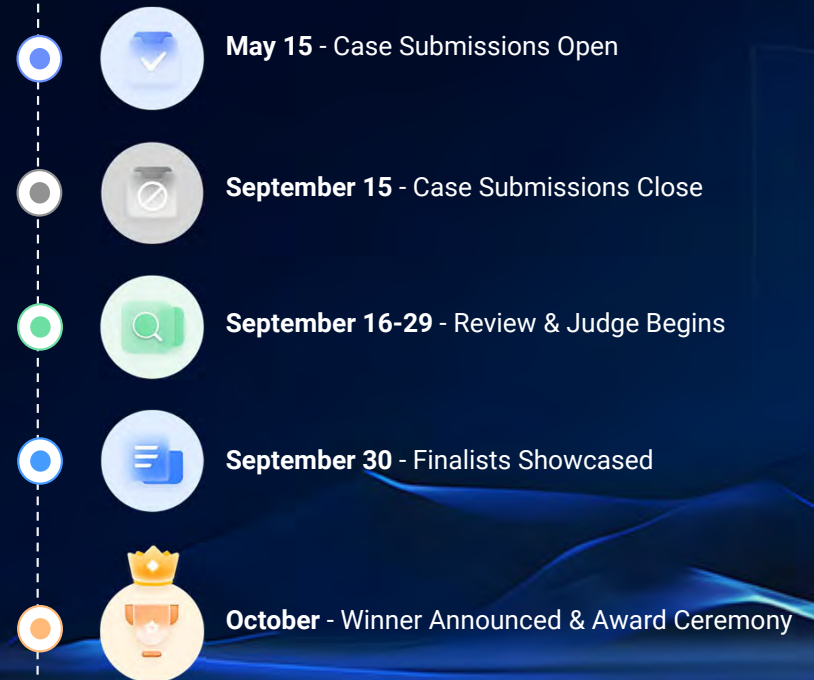
Entry Opened: May 15, 2024
Entry Closed: September 15, 2024



The 1st Milesight Impact Awards

- **Make Impact Visible**
- Formal event and winner documents to present your success.
- **Highlight Collaborative Spirit**
- Amplify partnership impact by sharing customer success globally.
- **Catalyze Industry Growth**
- Gain growth from sharing & sparking new ideas with industry insiders
-

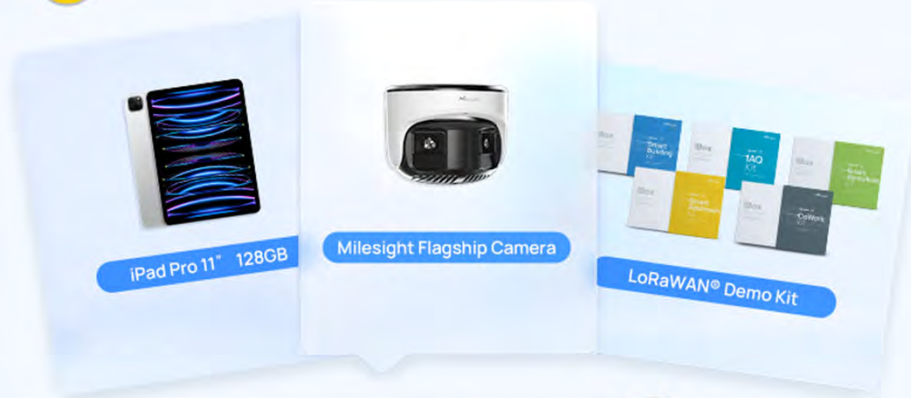
Submit by Sep15



Questions? Send an email to the:
Marketing@Milesight.com

Enter to Win the Grand Prizes!

1



Impact Awards **X6**

3 best IoT cases and 3 best Video Security cases will be selected as Impact Awards winners, with a choice of prize from available options, plus a winner package.

2



Honorable Mentions **X6**

Excluding the Impact Awards winners, cases who made it to the award finalists (announced on Sep 30) will receive the Honorable Mentions Prize.

Participation Prize

For anyone who submits a valid case, a token of appreciation for sharing your story with us.



FAQ About The Milesight Impact Awards



Who can enter?

For any Milesight partners who successfully address customer needs by delivering Milesight products as a solution.



How do I enter?

Go to the Awards page and find the online Google form entrance.
Alternatively, download the Excel file, complete it, and email it to marketing@milesight.com.



When are the key time milestones?

The submission period will OPEN on May 15th, 2024 and entries should be submitted by Sep 15th, 2024, 23:59:59 GMT.



Winning Tips:

- Enter more cases (no number limit) to increase your chances of winning!
- Send supporting imagery or video files as attachments to facilitate evaluation.
- Provide a detailed and well-structured story by presenting metrics and data.

Questions? Send an email to the:
Marketing@Milesight.com

LIVE Q&A SESSION

Get Closer even Miles Apart





CONNECT WITH US

Milesight in English



LinkedIn



YouTube



Newsletter

Milesight in Spanish



LinkedIn



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Twitter

Milesight

THANKS FOR WATCHING



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www.milesight-iot.com



Building C09, Software Park
Phase III, Xiamen 361024,
Fujian, China