

Aircom IIoT Telemetry Solutions for Hazardous Areas

End-to-End | Secure | Low Power | Long Range | LoRaWAN Technology









Aircom IoT Telemetry Solutions for Hazardous Areas

Aircom is a range of comprehensive, end-to-end IoT solutions that seamlessly integrate into your existing infrastructure to enable you to effortlessly monitor and optimize your operations. From robust hardware to user-friendly software platforms, we offer a complete package.



Aircom End Node:

-  Intrinsically safe (I.S.), approved for ATEX Zone 0 and Class I Div. I Compliant for explosive, hazardous environments.
-  Secure long-range data transmission AES-128 data encryption end-to-end, send data up to 10+ miles.
-  Low power; up to 10-year battery life, can power sensor with 10.6-16.5VDC output.
-  Flexible and expansive: Acts as a datalogger or RTU for monitoring applications. MQTT and Modbus TCP Gateway option for SCADA/DCS integration.

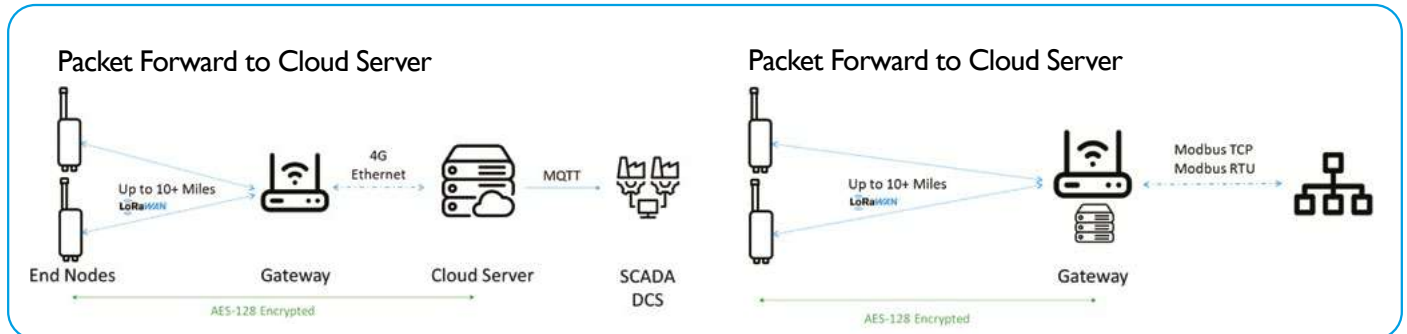


Aircom Gateway:

- **LoRaWAN connectivity:** Robust LoRaWAN gateway for communicating with end nodes to transmit field data back via an ethernet or cellular backhaul.
- **Flexible connectivity options:** With various models you can choose between two main options:
 1. Standard packet forwarder to a cloud server with support for Ethernet or Cellular backhaul.
 2. Server running locally on the gateway so you can poll data via Modbus TCP or Modbus RTU to get it back to the SCADA or DCS system.
- **Easy deployment:** Our Gateway is designed to be easy to deploy and manage, with intuitive interfaces and step-by-step guidance to get you up and running quickly.



Aircom End-to-End Solutions



Aircom LoRaWAN Server

Our LoRaWAN Network and Application Server provides a complete IIoT platform, enabling you to manage and deploy Aircom end nodes, for monitoring your process.

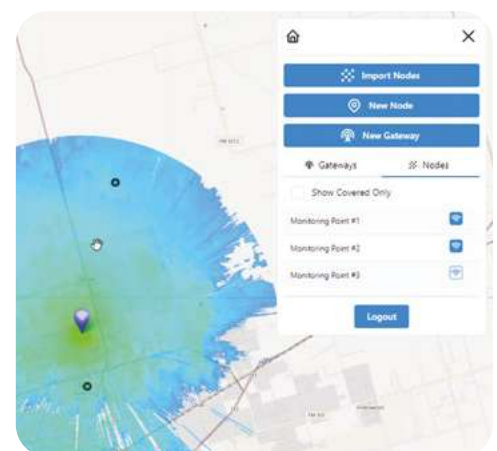
Our platform offers a range of powerful features, including:

- **Robust data management:** Our platform enables you to collect, process, and analyze data from your field devices, giving you real-time insights into your operations.
- **Secure communication:** Our platform uses industry-standard encryption and authentication protocols to ensure that your data is transmitted securely and reliably. You can rest assured that your data is protected at all times, whether it's being transmitted over the air or stored in our cloud-based platform.



Aircom Topographical Tool:

- The ideal solution for estimating end node coverage before deploying IIoT devices
- One of the key advantages of LoRaWAN is the ability to deploy your own private network by installing gateways. However, the quality of coverage can vary depending on a number of factors, including terrain, obstacles, and device placement
- Our topographical tool provides a comprehensive estimate of radio coverage in given area, allowing you to:
 - Visualize coverage
 - Plan deployments



Aftermarket

With our team of highly qualified and trained service engineers, we deliver exceptional support out in the field. Our technicians can provide start-up / commissioning, in addition to planned/unplanned maintenance, to keep your equipment working optimally and reliably.

- **Global coverage and availability**
- **Tailor your service package and use our genuine OEM spare parts.**



Industries and applications

Aircom is the perfect fit for IIoT in hazardous environments such as:

- **Oil and gas (RNG / biomethane, hydrogen, gas distribution)**
- **Petrochemical**
- **Water and wastewater treatment**

We also have applications in agriculture, food and beverage, pharmaceutical, industrial, and power generation

The Aircom end nodes connect to almost every kind of instrument to monitor analog, digital and serial communications inputs for things like:

Monitoring:

- **Pressure**
- **Temperature**
- **Tank or fluid level**
- **Liquid or gas flow**
- **Cathodic protection**
- **Remote control valve (RCV)**
- **Relief valve state**
- **Volume correction**
- **Overpressurization protection (OPP)**
- **Environmental**
- **Vibration, ultrasound, shock, triaxial movements**
- **Events and digital alarms: door and other asset sensors**
- **Cry-out function (alarms via digitals)**

Control:

- **Pressure control (profiling)**
- **Bespoke Solutions**



Contact us for a no-obligation quote or a proof-of-concept test.

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