

# SPACECOM

A Bridge to the Future. **Today**

## SPACECOM IoT SERVICE TACKLES THE CHALLENGES OF CONNECTIVITY ANYWHERE IN RURAL AND UNDER-SERVED AREAS

### Overview

Elevate your IoT business to new heights with satellite-based IoT service anywhere you need it. The convergence of low-power wide-area communication technologies and cloud computing has created today's IoT, with its endless applications. While IoT gateways in urban areas can be easily powered and connected to terrestrial cellular or fiber networks, remote rural areas, ships at sea, and under-served areas face the challenge of limited connectivity. Spacecom's solution provides a reliable and robust service to support your IoT needs in these challenging environments at all times.

### Features and Functionality



**Monitor and control IoT sensors** anywhere with user friendly configurable dashboard



**Visual and textual alerts** including mail or SMS notifications



Includes **Compact IoT-optimized** satellite communication terminal and **IoT gateway**



Uses any **LoRa standard sensor or actuator**



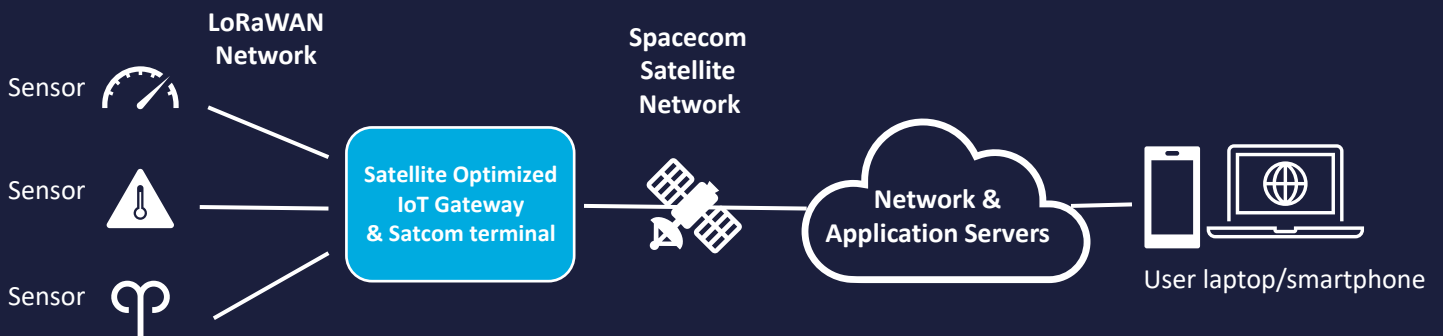
**Ruggedized LoRa-WAN gateways' IoT service** (NB-IoT optional)



**Low power**, built for off-grid installation



**Typical coverage of 10 -14 Km radius per gateway**



# USE CASES

## Agriculture



### **End-to-end IoT service for individual farmers and farming associations.**

From precision agriculture (rain gauge, temperature, ground and air humidity) to cattle management (providing full overview including tracking, geofencing, health, activity and additional insights), Spacecom IoT collects, processes, and delivers relevant data. It also allows farms to track machinery, monitor and activate gates and illumination systems, and even summon emergency services if needed.

## Natural Resources (Mining, Oil & Gas operations)



### **Helping operators scale IoT use, as well the efficiencies of digitization and automation. Spacecom offers:**

- Service coverage in the absence of cellular coverage
- Mobile and fixed assets tracking for safer and more profitable operations
- Intelligent OT management to collect and analyze data on gauges, valves, tanks, compressors, pumps, and existing M2M infrastructure
- Simplified compliance thanks to alerts and status notifications
- Environmental and personnel safety via remote monitoring and emergency protocol activation.



## Utilities

### **Ubiquitous connectivity with a backup communication system.**

Utility service providers face various new challenges including distributed generation promoted by renewables e.g., photovoltaic panels, and the growing demand and high fluctuations coming from increased use of electric vehicles. Spacecom's technology, together with LoRaWAN, enables global connectivity in a cost-effective way, in addition to working as a reliable backup communication system when land networks fail.

## Key Benefits

- Spacecom digital satellites enable always-on global cloud connectivity for IoT networks anywhere – even in the harshest environments and remotest locations.
- Built for low power consumption and off-grid operation
- Simple monitoring with best of breed configurable dashboard
- Straightforward introduction of new services using off-the-shelf sensors

## Spacecom's IoT Advantages

- Secure, stable, and cost-efficient service
- Always-on real-time communication
- Off-the shelf hardware with a simple installation and setup, and zero recurring maintenance
- Proprietary data optimization software providing:
  - Centralized end-device management
  - User-configurable GUI
  - Cloud-based dashboard accessible on any smart platform