



About us

Lacuna Space provides low-cost, simple and reliable Internet of Things (IoT) connectivity for sensors and mobile equipment everywhere in the world.

We do this using low-cost satellites in conjunction with terrestrial networks, and open standard LPWAN (low power wide area) protocols.

The connectivity we provide for billions of IoT sensors in remote regions of the world enables an ecosystem of solution providers to solve global scale problems.

Who we work with


We work with IoT network operators, integrators and platform providers to extend their market reach, while seamlessly integrating with existing networks and technology.

Opening up use cases and applications that are not possible with just infrastructure on the ground: tracking assets, smart agriculture or infrastructure management.

Our primary focus is the provision of connectivity, transferring data from end user devices to their existing IoT servers, on the cloud or the customer's premise.

We work with partners on end user devices. Open sourcing the reference designs for devices on our network.


Lacuna Space: Tweeting for devices Everywhere



My shipping container is currently here!

I'm dry – come water me!

ALERT – I just detected pollutants!



My stolen equipment is moving this way!

These animals have migrated via this route!

Argh - I was dropped!

I'm empty – come re-fill me!

The temperature of this remote equipment is rising – it needs maintenance!

Typical applications

Tracking



Remote Assets



Agriculture



Environmental



Energy networks



LoRaWAN® extension



Key benefits

Easy Deployment

Works “out of the box”, no need to install and maintain a gateway

- ✓ Direct transmission from device to satellites;
- ✓ Small, self-contained, battery powered devices – can be running for years;

Easy Integration

Minimal development effort and costs in upgrading existing sensors

- ✓ Devices use standard electronics as in LoRaWAN® devices. Low cost and freely available;
- ✓ Data delivered directly to LoRaWAN® servers.

Standardised

Develop knowing your solution will work now and in the future

- ✓ Standardized by the LoRa Alliance®;
- ✓ Standard LoRaWAN® security mechanisms for key storage, authentication and encryption.

Products from our partners

Cargo Tracker



Miromico's range of tracking products with global satellite connectivity.
For further information please visit www.miromico.ch/iot

Soil Moisture



Miromico's range of smart farming products with global satellite connectivity.
For further information please visit www.miromico.ch/iot

valenco
Engineered Value

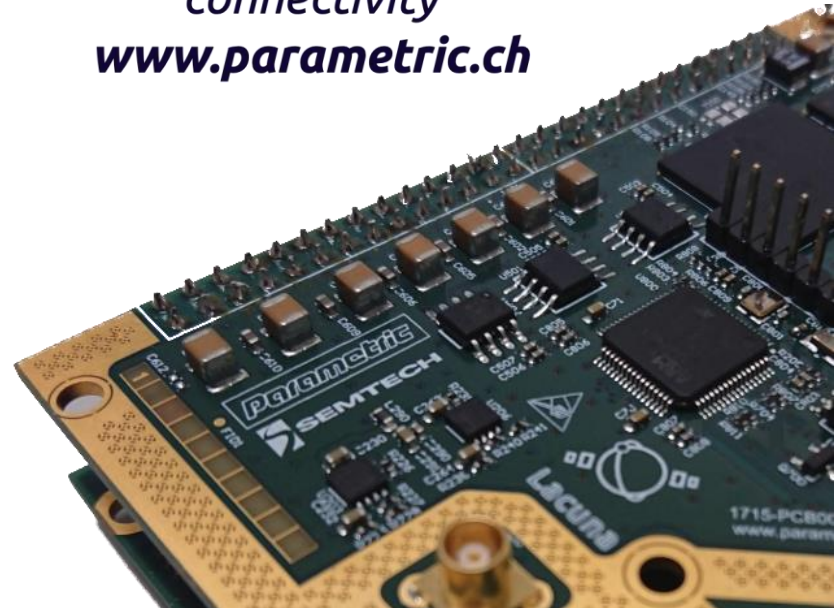
Wildlife monitoring from image analysis



Parametric: specialized hardened electronics



*Popular PCR2 solar-powered
radar object counters with
LoRaWAN® featuring Lacuna
connectivity*
www.parametric.ch



Constellation

Connection Frequency over the satellite network:

2025: every 5 minutes

2023: > 8 per day

2022: > 4 per day

**2020: > 2 per day
(evaluation service)**

A Lacuna device can also transmit over a public or private terrestrial network



Interested in a partnership?

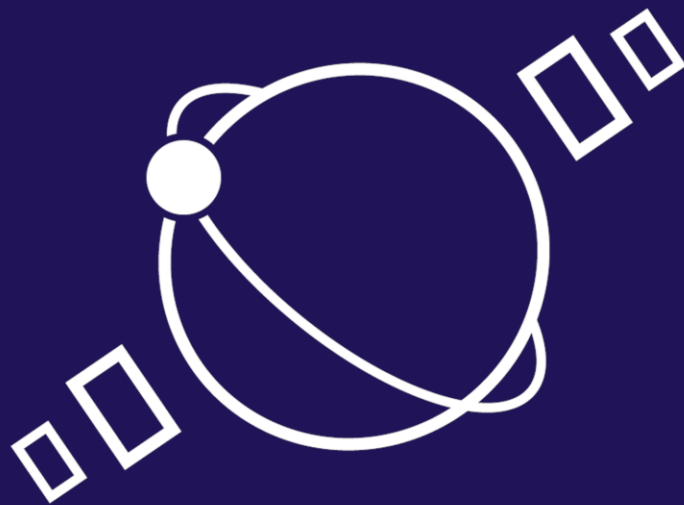
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