IoT

IoT *Nano*

Low to medium data, non-IP messaging

IoT Nano is our two-way, non-IP messaging service for monitoring and controlling assets that's low cost, low power, low latency and optimized for satellite.

IoT Nano delivers situational awareness and control to medium to large-scale deployments, supported by a versatile range of hardware options and Viasat's ultra-reliable L-band network. IoT Nano devices feature a tiny footprint and power consumption, allowing autonomous operation on battery for years for some use cases.

IoT Nano provides a proven, scalable and robust platform for data collection and control of assets in remote locations, capable of sending messages up to 1MB in size. With a wide range of hardware, incorporating long-battery life, cellular and satellite switching, and even in-built solar power, you can trust IoT Nano to deliver situational awareness almost anywhere on the remote edge. IoT Nano also comes in module-form so it's easy to embed within proprietary hardware within your solutions.

IoT Nano is the trusted service for telemetry, tracking, compliance, safety and control applications, allowing you to deploy IoT innovations that improve your efficiency, lower your operational costs, optimize your maintenance and cut your risk.

Features

- **No need for SIMs in devices** – equipped hardware works everywhere.*
- **Low latency**, typically under 15 seconds for small event messages.
- **End-to-end security** with RESTful API access to data.

Benefits

- **Deliver reliable situational awareness globally** with Viasat's reliable L-band service, delivering uptime of up to 99.5%.
- **Maximize cost-effectiveness** with highly efficient non-IP messaging.
- **Develop novel devices** with low-cost, ultra-compact low-power modules.
- **Deploy quickly and effectively** with no-pointing patch antennas and simple setup, installation, integration, and maintenance.

*Apart from poles

In action

Use cases

- Asset tracking monitoring
- Diagnostic file retrieval
- Emergency messaging
- Equipment monitoring & control
- Event-triggered, compressed image messaging
- Near real-time tracking
- Remote firmware patches
- Supply chain monitoring
- Telematics

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Service plans

Flexible plans:

› For you if you have a low volume of devices, or if your data usage per device is very high or very low.

› Pooling protects against bill shock.

Shared plans:

› For you if you have a high volume of devices and your data usage per device is not particularly high or low.

› Can add an unlimited number of devices to the plans.

Broadcast plans

› For you if you need to broadcast messages to multiple devices.

Annual single SIM [NEW]

› For you if you are deploying IoT Nano for a seasonal use case and would like to manage your data usage annually rather than monthly.

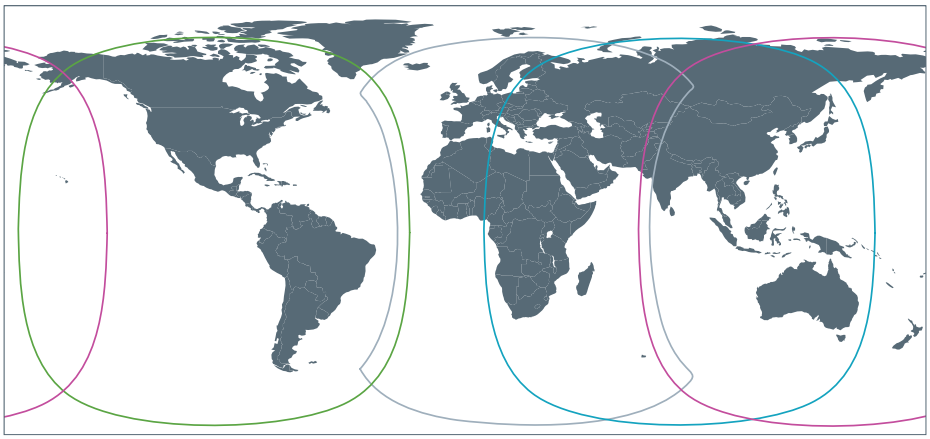
Production test plan [NEW]

› For you if you need to do quick and simple tests of your devices before shipping.

Demo plan

› For you if you need to demonstrate your product to potential customers and partners.

Coverage map



For illustrative purposes only. Coverage is approximate and subject to change. Not representative of any single product or service.

Band: L-band

Power consumption: Ultra low

Throughput (indicative maximum): Up to 0.7Kbps up and down

Message size: 10 bytes to 16 kilobytes. Up to 1 megabyte planned

Low latency: 15-60 seconds

Mobility: Static, on the pause, on the move

- **Monitoring and telemetry**
- **Control instructions**
- **Optimized for satellite**
- **Encryption**
- **Near real-time**
- **Low-latency**
- **Massively scalable**
- **Ultra low power**
- **Embeddable modules**
- **Simple file/image transfer**

Discover how Viasat's IoT Nano can unlock operational efficiency with secure non-IP connectivity for fixed and mobile IoT assets.

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