IoT

IoT *Nano*

Low 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.

Powered by Orbcomm's OGx technology, 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.

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 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 low-bandwidth 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.

In action

Use cases

› Equipment monitoring & control
› Supply chain monitoring
› Asset tracking monitoring
› Telematics
› Emergency messaging

Industries

› Agriculture
› Electrical utilities
› Mining
› Oil & gas
› Transport

Features

Seamless global coverage: on our ultra-reliable L-band network with up to 99.9% network availability.

Low latency: typically under 15 seconds for small event messages. Larger files can be delivered at burst rates up to 16Kbps.

Versatile and robust devices: Rugged, compact, energy-efficient, programmable devices from multiple suppliers (OEM modules available for large-scale manufacturers).

Benefits

Easy to install: No technical expertise or training required.

Highly predictable monthly operating costs: tailored to application needs.

Pooled data packages: designed for IoT applications; allowing anomalies/alerts to be managed without bill shock.

Industry-leading, high-performance two-way messaging: from tiny events to images or small files (a few bytes to tens of KB).

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Service plans

Flexible plans:

› Ideal for a low volume of devices, or if your anticipated data usage per device is very high, very low, or variable (e.g. seasonal).

› Pooling of throughput entitlement across SIMs protects you from bill shock (e.g. caused by IoT exception events where one SIM is very active and others have minimal throughput: the plan covers total usage, not per-SIM usage).
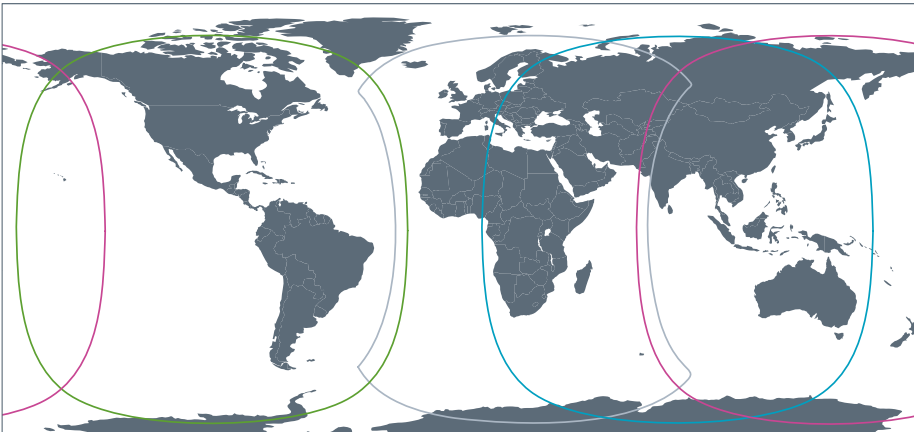
Shared plans:

› Ideal for a high volume of devices with average data usage per device.

› An unlimited number of SIMs can be added to a shared plan.

› Billing is the higher of:

   i. Minimum monthly spend

   ii. The total data usage of all devices at the fixed data charge, or

   iii. The minimum data allocation per device at the fixed data charge.

› Pooling again smooths out bills.

Broadcast plans

› Our demo plan allows you to demonstrate the satcom capability of your product as part of your sales process.

For a full range please contact your Viasat Account Manager.

Band: L-band

Power consumption: Low

Throughput (indicative maximum): Up to 16Kbps up and down

Message size: 10 bytes to 10 kilobytes

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

Coverage map

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

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

EMAIL   enterprisesales@viasat.com
WEB   viasat.com

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