



Ultra-Low Power Global Satellite IoT for Remote Asset Connectivity

Pulsar IoT Nano

Unlock two-way satellite messaging for fixed and mobile assets—anywhere on Earth. Powered by Viasat's L-band network and ORBCOMM OGx technology, IoT Nano is the cost-effective solution for telemetry, tracking, diagnostics, and event-driven control—delivered with ultra-reliability, minimal power, and compact hardware.

Why IoT Nano?

- **Global, weather-resilient coverage** with ~99.5% uptime over Viasat's licensed L-band network
- **Low-power, non-IP messaging** for scalable deployments with predictable data costs
- **Faster, larger messages** (up to 1 MB) and near real-time latency (15–60 sec)
- **Embedded module support** and programmable terminals from industry-leading OEMs
- **Zero SIMs required**—devices activate globally without roaming complications

Technical Highlights

- **Non-IP, bidirectional messaging** with secure REST API and built-in encryption
- **Message size:** up to 1 MB, optimized for IoT workflows
- **Hardware:** ST-2100, ST-6100, IoSAT, SC-1000 terminals & module OEM support
- **Latency:** 15–60 seconds (message-size dependent)
- **Power-efficiency:** solar- or battery-only operation for years

Key Value-Add Features

- **Flexible service plans:** Flat rate, pooled data, broadcast mode, demo and test tiers depending on volume and use
- **Scalable deployment support:** Ideal for pilots through thousands of devices
- **Lower total cost of ownership:** Smaller solar panels, reduced enclosure size and power needs
- **Simplified rollout:** Pre-configured patch antennas eliminate pointing, and quick install onboarding

Use Case Examples

Industry	Real-World Application	Benefit
Agriculture/Aqua	Livestock positioning, storage/environment sensor monitoring	Reduced downtime, efficient resource management
Mining & Energy	Monitoring pumps, valves, tanks, and pipeline integrity	Real-time alerts and remote diagnostics
Logistics & Transport	Freight tracking, container status, trail monitoring	Supply chain visibility, security assurance
Utilities & Infra	Substation monitoring, intrusion detection, SCADA reporting	Improved reliability and compliance

Pulsar Support and Integration

- Expert support and consultation through Pulsar's satellite IoT specialists
- Embedded integration with Pulsar Tracking Portal for live dashboards and alert escalation
- Developer tools for REST APIs, integrations into ERP, SCADA, or cloud systems

Discover how Pulsar IoT Nano can transform your remote operations.

Contact us today to explore pilots, request pricing, or evaluate use cases tailored to your industry. Get started today: support@pulsarbeyond.com or visit www.pulsarbeyond.com.