



IoT Direct

Ultra-low data, NB-NTN for massive industrial IoT and consumer deployments



IoT Direct is a two-way narrowband non-terrestrial (NB-NTN) service delivering massive-scale IoT and seamless satellite and cellular access through one SIM.

Our NB-NTN service, IoT Direct, is built on the Viasat Direct D2D network using 3GPP standards. It supports massive-scale IoT solutions where low data usage per device, discrete form factor and ultra-low battery consumption are important.

Partners are developing a range of chipsets, modules and devices which can be embedded into proprietary hardware, vehicles and things. Incorporating seamless switching between cellular and satellite services, it is challenging existing notions of how satellite connectivity can be implemented.

Leveraging our relationships with Mobile Network Operators (MNOs), going forward we are enabling seamless cellular and satellite switching from one SIM. With IP and non-IP messaging formats and small messages delivered in under 20 seconds; you can minimize satcom costs on the majority of mass market applications.

Features



Global coverage: Operating over the Viasat L-band global satellite and ground network, IoT Pro offers you up to 99.9% network availability wherever you are, except in the extreme polar regions.



Embeddable modules: a wide variety of approved modules, chipsets and antennas are available.



3GPP standards based: Interoperable, standardized and future-proofed to ensure simple integration and upgrades.



Regulatory support: delivering satellite services in over 100 countries, we can help you to introduce your service.

Benefits



Seamless end user experience: Stay connected everywhere with roaming between cellular and satellite.



Massive scale: deploy IoT control applications at mass-market scale.



Affordable: Low hardware costs with subscription-based service plans, no minimum connection fee, and minimum billing increments.

In action

Use cases

- › Massive-scale, low-power event monitoring
- › Consumer handsets, wearables and outdoor SOS device
- › Telematics and predictive maintenance for automotive.
- › Livestock tracking and health.
- › Smart grid applications, including managing electricity distribution.

Industries

- › Agriculture
- › Automotive
- › Consumer technologies
- › Environmental
- › Mining
- › Utilities
- › Oil and gas
- › Transport



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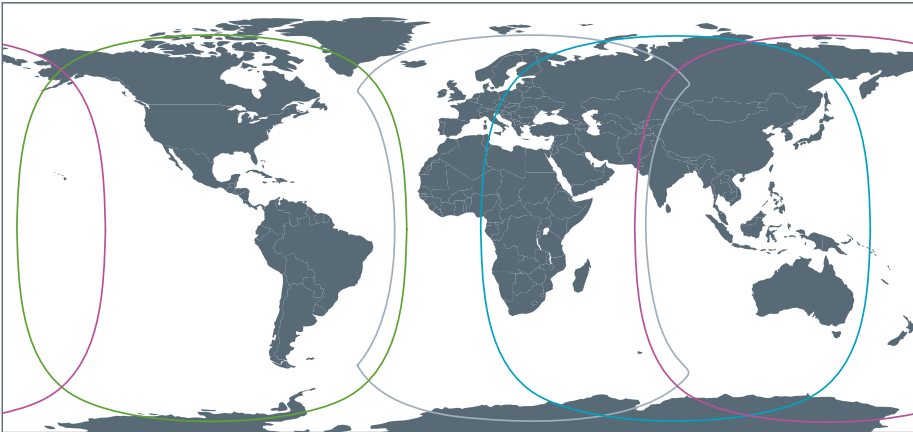


Service plans

For customers using Viasat SIMs we offer flexible service plans for low volume devices and SIM pooling, as well as high volume shared plans.

Working with our MNO and MVNO partners we offer roaming partner plans. These include consumer and industrial plan models aligned to devices that access and attach to the network, and their usage.

Coverage map



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

Band: L-band

In-brief: Develop IoT devices and applications at scale






Customer issue: High volume, low data, fixed/mobile assets

Throughput (indicative maximum):
Up to 0.07Kbps up and down

Power consumption: Ultra-Low

Network availability: Up to 99.9%

Mobility: Static, on the pause, on the move

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

Discover how you can build next-generation connected services with devices and services through Viasat IoT Direct.

EMAIL enterprisesales@viasat.com
WEB viasat.com

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