ENABLING
the connected world

inmarsat
The mobile satellite company

IsatData Pro

TEMPERATURE 93.8 °F

TODAY'S ENERGY 3 MBTU

VOLUME TODAY 2.82 MCF

DIFFERENTIAL PRESSURE
14.2" OF H_2O

Why Inmarsat?

> **Global**
Seamless global satellite network and support

> **Reliable**
Unrivalled record operating critical safety networks for over 40 years

> **Secure**
Trusted by governments and industries to safeguard digital assets

> **Innovation**
Continued investment to deliver advanced new capabilities

> **Technical expertise**
Ready to support and enable your projects

How we work

Accessing Inmarsat's award-winning connectivity is simple: either we work with you to build a bespoke solution, which we manage on an ongoing basis, or you procure hardware and airtime through our global partner network.

ISATDATA PRO: RELIABLE, EVENT-DRIVEN DATA SERVICES

A globally reliable short message service enabling remote asset management and enhancing safety, efficiency and sustainability.

IsatData Pro enables remote asset management for a range of industrial applications. Delivering mission-critical information, the IDP messaging capabilities ensure your connected devices can communicate effectively. Whether tracking equipment, monitoring operational technology, or connecting lone workers, even in the most remote environments.

These capabilities are having a transformational impact on organisations in terms of efficiency, safety and security, while also lowering risk and operational cost. IDP facilitates the combining of location, sensor and control data with edge processing, providing actionable information or improving the reach and reliability of existing IoT applications.

From simple tracking and monitoring to more sophisticated telemetry, logistics and safety compliance, IDP provides mission-critical data connectivity in a compact, affordable package. Use it as a stand-alone satellite connection for truly remote assets, or mobile business continuity when coverage, events or disasters impact the availability of cellular networks.

WHERE IS IDP MAKING A DIFFERENCE?

Transportation

> Location awareness helps manage risk and optimise operations.

> Combined with sensor and telematics alerts, companies improve security and safety of both drivers and cargo, and reduce fuel, insurance and maintenance costs.

Energy and Utilities

> Monitor and alert regarding simple parameters such as tank levels, safety shut-offs and intrusion detection with one device that simply works, worldwide.

> Demonstrate compliance with regulations for pipeline integrity and emissions.

> Improve worker safety and productivity for drivers and maintenance personnel.

Mining and Construction

> Improve operational efficiencies with better visibility of vehicles, loads and utilisation.

> Improve worker safety and productivity.

> Reduce maintenance costs of machinery.

> Activate and control remote industrial mechanisms like water pumps, water valves, and measure telematics in real-time.

Maritime and Aquaculture

> Comply with sustainable fishing regulations.

> Improve catch yields and reduce fuel costs.

> Enable basic safety and crew welfare communications.

> Prevent disease and production loss in fish farms.

Environment and Agriculture

> Monitor and alert regarding quality or safety risks of critical resources such as water and forests.

> Optimise processes to improve yield and track livestock wellness.

> Track and reduce maintenance costs of machinery.

Applications

> Asset tracking
> Fleet management and telematics
> Dispatch and workflow automation (e.g. forms)
> Remote monitoring (e.g. tank level, flow, intrusion)
> Industrial automation
> Vessel Monitoring Systems (fisheries compliance)
> Electronic catch reporting
> Basic crew welfare (text messaging/email)

FEATURES AND BENEFITS

Providing global connectivity and operating in near real-time, IDP enables and enhances the capabilities of industrial IoT applications. The service is ideally suited to monitoring and tracking remote, fixed or mobile assets, with key industries including logistics, agriculture and energy.

Unequalled reliability and scalability

Inmarsat helps customers achieve total control and visibility of their assets, operating in conditions where cellular and other satellite services are congested, degraded or not available, and providing 99.9 percent availability across its L-band satellite network.

Return on Investment (ROI) driven connectivity

Machine-to-machine services derive value from a seamless global network, using a device that works worldwide without the complexity and costs of multi-party roaming.

Ease of use

The small, omnidirectional antenna makes installation easy and fast. One device works anywhere worldwide, without different frequency bands, SIM cards or roaming fees. Ultra-low power consumption enables battery applications that run for years maintenance-free.

Best in class performance

Data payloads up to 10 kilobytes and consistent throughput worldwide enables highly scalable and dependable applications to be developed, while keeping costs in check.

Coverage

Inmarsat's services are available worldwide, so organisations can rely on complete connectivity for their assets, wherever they're located, even if they are moving or transferred from one region to another.

IDP TERMINALS

The range of IDP terminals and components enable a variety of applications, whether bolted onto an existing system or built-in. Key features include ultra low power consumption for battery operation, programmable edge intelligence, and cellular hybrid reliability.

	Orbcomm OGi	ST2100	ST6100	Skywave IDP-700 series	Skywave IDP-800 series
IDP terminals	OEM (original equipment manufacturer) modules that can be integrated into your specialised electronics package.	Add-on devices that connect to your IoT gateway hardware of choice using a simple cable for serial data and power.		Fully programmable satellite IoT gateways for which you can license apps or build your own. Variants include hybrid satellite and cellular networking, integrated batteries, and more.	
	– Compact OEM modem module for hardware developers, includes GPS – Serial UART with AT commands – Antenna option for land/maritime	– Serial RS232 with AT commands – Small footprint and low power consumption – Enables two-way messaging via edge gateway – Built-in GNSS provides precise time and location reference – Key applications include remote monitoring, automation, telemetry and SCADA	– Expanded memory capacity – Built-in antenna designed for land and maritime deployments – Robust design for harsh, remote environments – Suitable for SCADA applications across the oil and gas and utilities sectors – Versatile and easy to integrate	– Hybrid satellite-cellular intelligent terminal/gateway complete with antenna, GPS & microcontroller – 2-piece (indoor + outdoor) assembly – User-supplied 3G SIM – Lua SDK for embedded developers – Serial ports for RTU, HMI, OneWire – CAN bus for vehicle telematics – GPIO for sensors and actuators – Antenna option for land/maritime – Battery back-up option	– Standalone, rugged intelligent terminal/gateway complete with antenna, GPS and microcontroller – Battery powered: replaceable or rechargeable options – Lua SDK for embedded developers – Serial port for RTU, HMI – GPIO for sensors and actuators

OUR CONNECTIVITY SERVICES

Inmarsat provides the widest range
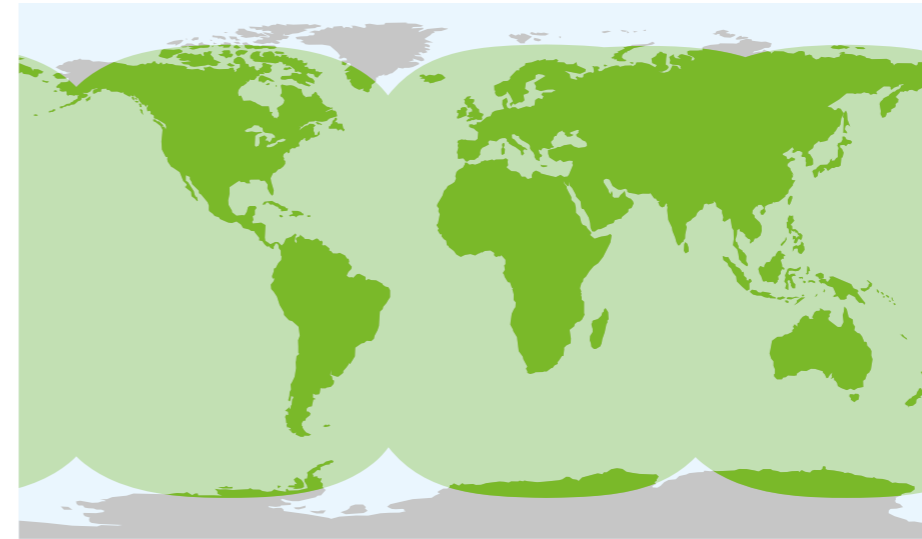of connectivity services and solutions.

LX	BGAN	BGAN M2M	IsatData Pro	IsatPhone 2
Ka-band	L-band	L-band	L-band	L-band
Up to 16 Mbps receive, 4 Mbps send	492kbps Up to 800kbps with BGAN HDR Standard IP & Streaming IP	Up to 448 / 464kbps (send / receive)	6,400 / 10,000 bytes (send / receive)	2.4kbps voice codec
VoIP, video conferencing, VPN access, email live video and audio streaming, high-speed broadband for internet access, high-speed file transfer, video surveillance	Email, internet access, Video conferencing, video transfer, voice, file transfer, IP SCADA, data backhaul, telemetry	IP and non- IP SCADA, secure ATM/POS solutions, automation, remote fixed asset monitoring, including telemetry and surveillance, IoT	Asset tracking, fleet management, industrial automation, remote monitoring and control, workflow automation, in-cab dispatch and messaging, IoT and cellular hybrid capabilities	Voice, SMS, short-message email, tracking and emergency assistance

IDP coverage

■ IsatData Pro coverage

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About Inmarsat

Inmarsat is the leading provider of global mobile satellite communications services. Since 1979, Inmarsat has been providing reliable voice and high-speed data communications to governments, enterprises and other organisations, with a range of services that can be used on land, at sea or in the air. Inmarsat operates around the world, with a presence in the major ports and centres of commerce on every continent. For more information, please visit www.inmarsat.com

About Inmarsat Enterprise

Inmarsat Enterprise is enabling safer, more efficient, more sustainable operations wherever businesses operate on land. Our customers trust us to deliver the industry standard in reliable mobile satellite connectivity, underpinning mission critical communications, remote operations, machine-to-machine (M2M) applications and the Industrial Internet of Things (IoT). With expertise in agriculture, aid and NGO, media, mining, oil and gas, renewables, transport and utilities we work with our partners to build solutions that deliver transformational outcomes and ensure the right level of ongoing management.

HOW TO BUY

Inmarsat delivers services and solutions in over 190 countries with our global partners. To learn more please get in touch with our dedicated team via our website.

inmarsat.com/enterprise