



Keep smart construction sites running 24/7

inseego.com



Coordination is king

In construction, coordination is king. Moving large amounts of supplies and personnel in and out of what are often remote job sites with safety hazards and time-sensitive work happening is difficult, at best, and crucial. With increasingly tight profit margins and significant risks from vandalism and theft, construction companies must keep a close eye on operations and quickly respond to incidents. IoT devices and artificial intelligence can drive efficiencies in these critical areas.

Bringing stable, latency-free high-speed internet to these remote, high-demand locations is difficult. 5G wireless networks bridge the gap, enabling the smart construction site of today and the smarter jobsite of tomorrow.



5G and digital technologies increase efficiency

A 5G fixed wireless access (FWA) network provides the high-speed, low-latency throughput that smart construction sites running multiple IoT and AI-enabled devices require. 5G wireless broadband networks support the powerful capabilities of advanced digital technologies even at remote sites:

- **Enhance on-site operations** with IoT devices, such as laser levellers that automatically send information to foremen and site offices.
- **Improve safety** by remotely tracking whether employees are wearing proper safety equipment, such as hard hats and vests. • **Limit security costs** by using AI-enabled cameras to monitor sites after hours, preventing theft and vandalism without adding personnel costs.
- **Maximize equipment efficiency** during the day with IoT-enabled trucks, loaders, and other heavy equipment, ensuring devices are always being used and aren't interfering with one another.
- **Reduce errors** and miscommunication with personal computing devices that can access relevant information like blueprints and schematics from anywhere on-site.
- **Efficiently survey sites** using drones and analyse captured data with AI to estimate build times, required equipment, and more.

Inseego 5G private wireless networks enhance construction operations

Powerful 5G wireless networks provide the high level of control needed to support IoT and AI solutions and enhance construction operations with:

Greater bandwidth

Enables construction sites to connect more advanced devices while still taking advantage of 5G's superior network speed. With more bandwidth, construction sites can support demanding applications, such as streaming 4K video from security cameras, without compromising network functions.

Low latency

Enhances both efficiency and safety, allowing all devices to communicate in near real time to optimise daily operations, help operators avoid collisions between moving heavy equipment, and reduce costly downtime. We work closely with the teams developing your digital applications to understand the bandwidth adaptations needed for optimal application performance, and the superior RF performance of our devices makes efficient use of all bandwidths at all times.

High reliability and security

With advanced VPN, encryption capabilities, and network monitoring, your data stays secure across your network. Our products also offer seamless failover to cellular with Dual-WAN ports, ensuring connectivity when your primary connections fail. This includes Dual-SIMs that automatically switch to the fastest connection, guaranteeing maximum job site uptime.



Build a foundation for a smarter construction site

Unlike other vendors who are new to 5G, we have deep experience at every level of 5G, from the hardware to the cloud. Our 5G solutions are field-tested and tailored to meet the unique application, safety, and regulatory requirements of construction operations. All our offerings are engineered to operate reliably at 5G speeds. As construction sites get even smarter by leveraging more automated solutions to drive greater efficiency, solutions like Inseego Connect can optimise operations by extending and integrating corporate networks with devices and applications on any site.

Get powerful 5G anywhere



Inseego Wavemaker
5G outdoor CPE FW2000

[View on inseego.com](#)

The Inseego Wavemaker 5G Outdoor CPE FW2000 delivers reliable long-range performance anywhere it's needed:

- **Extended network reach** using high-gain, long-range antennas brings 5G fixed wireless access and 4G LTE fallback to complex and remote sites.
- **Simplified setup** with the Inseego Mobile app makes it easy to find the strongest network signal and optimal mounting location for network devices and antennas.
- **Reliable access** and enterprise-grade security built on IP67-rated hardware keeps vital data and communications flowing even in harsh weather and temperature extremes.

Integrate flexible, versatile connectivity



Inseego Skyus 160 IoT gateway

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The Skyus 160 LTE Gateway supports a range of operations in virtually any location:

- Reliable access from multiple antenna ports and Inseego's proprietary thermal mitigation technology delivers multi-gigabit speeds, low latency, and secure connections even at the edge of the network.
- Convenient remote management powered by Inseego Connect to manage every device, no matter where it's deployed.
- Flexible deployment with Ethernet, USB, and I/O ports, combined with multiple power and mounting options, enable the gateways to support virtually any deployment scenario.

Our 5G solutions are field-tested and tailored to meet the unique application, safety, and regulatory requirements of construction operations.



Make deployment and connectivity setup easy



Inseego Wavemaker™
5G Cellular Router FX4200

[View on inseego.com](https://www.inseego.com)

The Inseego Wavemaker 5G Indoor Router FX4200 makes it easy to get started with lightning-fast 5G:

- Easy site surveys with the FX4200's built-in backup battery that allows field technicians the mobility to find the best signal in real-time through the onboard integrated display that shows signal bars and can run speed tests, eliminating the need for separate external tools and complex site visits.
- Secure connectivity for up to 256 devices, support for private networks, and simultaneous dual-band Wi-Fi 7 technology enable breakthrough 4G LTE and 5G speeds, protected by a host of security features for data protection and privacy.
- Streamlined management and deployment with plug-n-play capabilities, Inseego Connect, and the Inseego Mobile app, it is easy to find an optimal deployment location and enable IT personnel to monitor, configure, and troubleshoot all deployed devices remotely.
- Dual-SIM support and auto-switching based on signal strength, data usage, service availability, and quality extract maximum value from this flexibility.



Maintain connections on the move



MiFi® PRO M4 5G Mobile Router

[View on inseego.com](https://www.inseego.com)

The MiFi PRO M4 provides enterprise-grade mobility for site managers and engineers requiring high-capacity, secure connectivity across the jobsite:

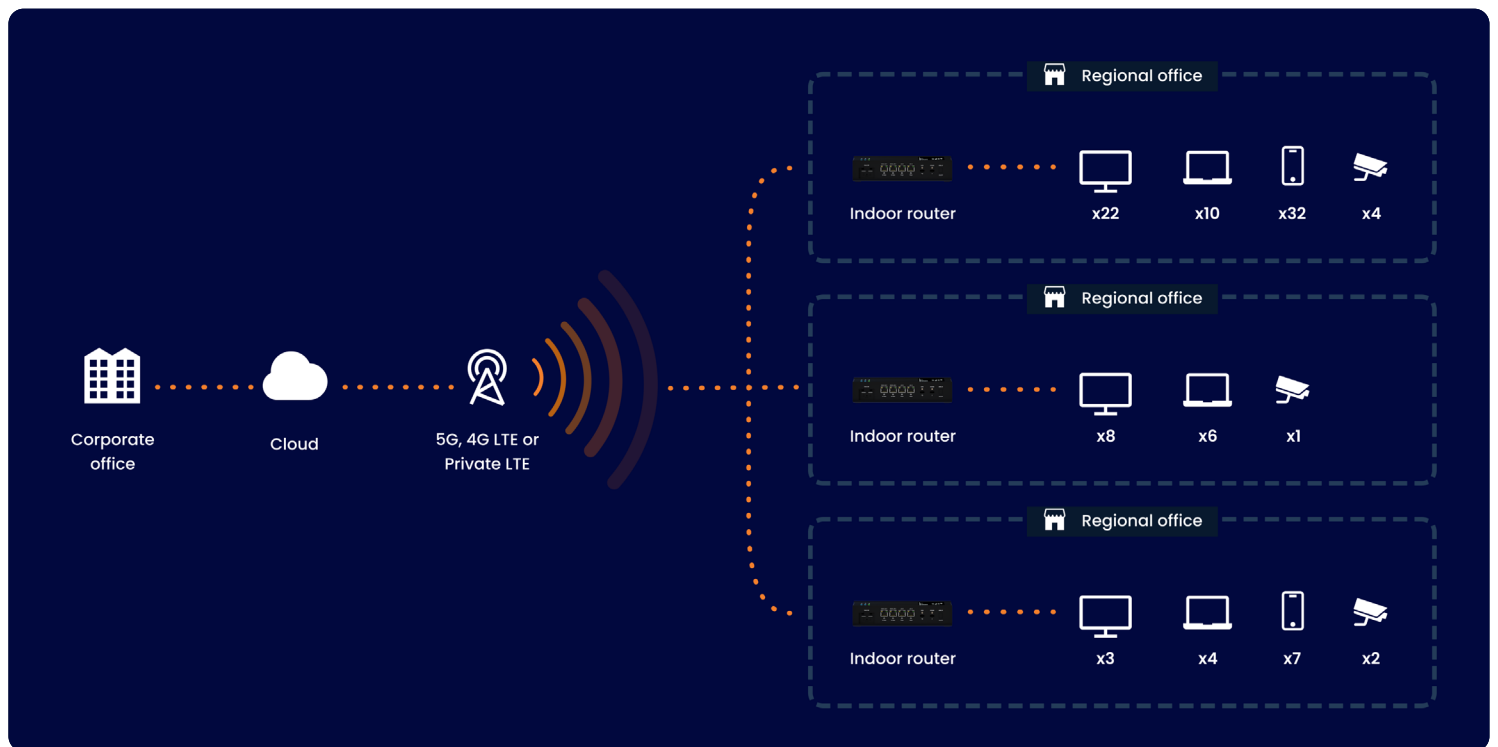
- **Support for up to 50 simultaneous connections** utilizing Wi-Fi 7 technology and 5G Advanced (Release 18) for massive data throughput and minimal latency.
- **Built for 24/7 reliability** with industrial-grade thermals and battery-less AC operation, ensuring consistent uptime in demanding site office environments.
- **Advanced security** with FIPS 140-3 validated cryptography to shield corporate traffic and blueprints from external threats.
- **Utilize the "Enterprise Bubble"** architecture to create a secure, isolated environment for corporate devices and data, allowing employees to take the secure corporate network wherever they work.
- **Versatile connectivity** including a 1 Gbps Ethernet port and USB-C, providing TAA-compliant hardware for secure enterprise and government projects.

Manage and deploy multiple devices from almost anywhere

Inseego Connect

Inseego Connect and the Inseego Mobile App are essential cloud management tools for IT teams, providing simple, efficient management and deployment of all Inseego devices. They ensure your network is optimised so every connected device, from IoT sensors to heavy equipment, operates reliably and securely across even the most remote job sites:

- Take advantage of centralised remote management to control all devices from one dashboard, ideal for multi-site projects with limited IT staff.
- Keep devices secure and optimised without sending technicians to remote locations with remote firmware updates & configuration changes.
- Quickly resolve issues to avoid costly downtime and keep projects on schedule with real-time monitoring & remote troubleshooting.
- Find the strongest signal and best mounting position fast, reducing deployment time by using the Inseego Mobile App's setup steps.
- Ensure connectivity meets demands for high-bandwidth applications like AR/VR training and drone data uploads with remote speed tests using Inseego Connect or on-the-go mobile speed tests with the Inseego Mobile App.



Inseego Connect solution

Learn more

Discover how our solutions can elevate your construction operations – now and into the future. Contact us via our website or at partnersales@inseego.com.

About us

Inseego pushes the boundaries of 5G technology to revolutionize enterprise information technology (IT) and operational technology (OT) experiences for distributed sites and workforces. With 5G at the core of everything we do, we deliver innovations that transform the way businesses connect, access, and use information.