

eSIM Solution

7-8 minutes : 8/6/2024

1. [Home](#)
2. [Solutions](#)
3. eSIM Solution

What is an eSIM

An eSIM (Embedded SIM) is a built-in SIM card chip integrated into a device. It is a digital, non-removable, programmable chip that allows data plans or phone numbers (eSIM profiles) to be configured via software.

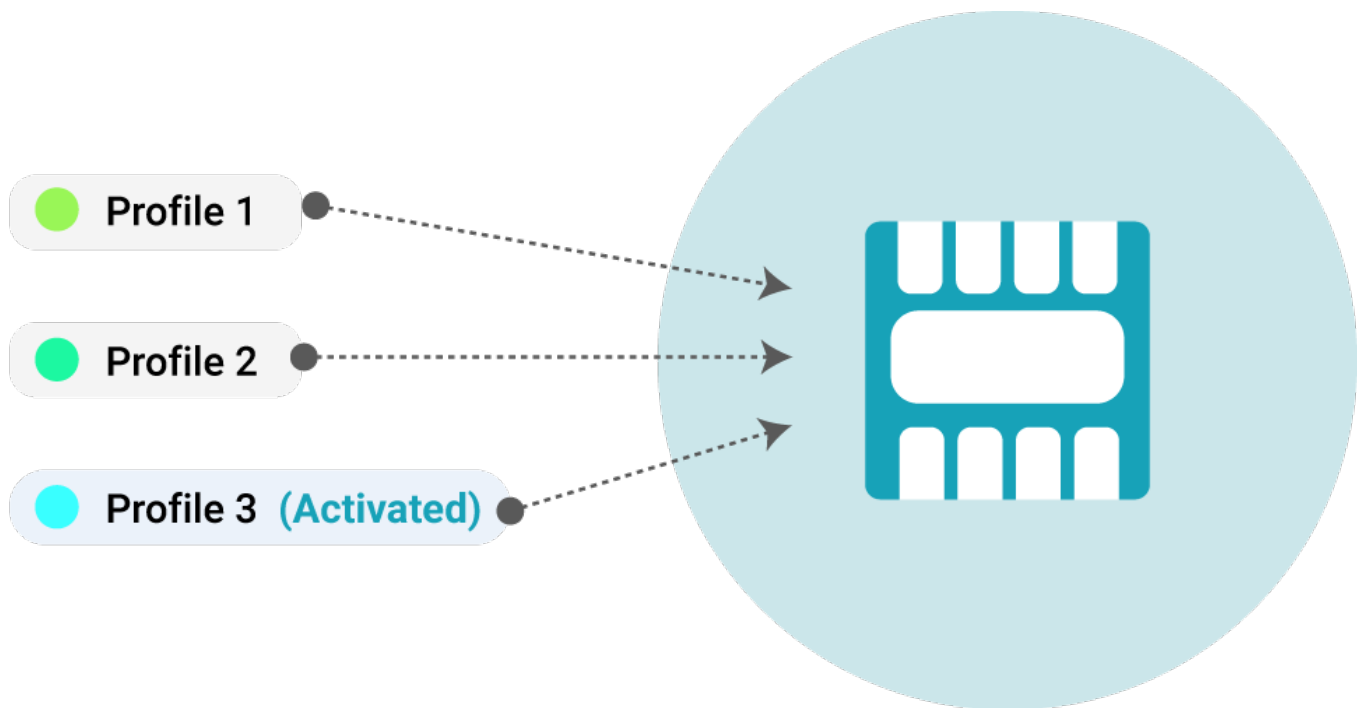
eSIMs are widely used in smartphones, routers, wearable devices, tablets, and Internet of Things (IoT) devices.

Traditional SIM



It comes with a **pre-configured operator profile** that cannot be altered or removed.

eSIM



The eSIM chip can store **multiple operator profiles**, allowing users to choose or switch profiles to activate. This enables users to easily switch carriers or change services **without** the need to insert or replace a physical card.



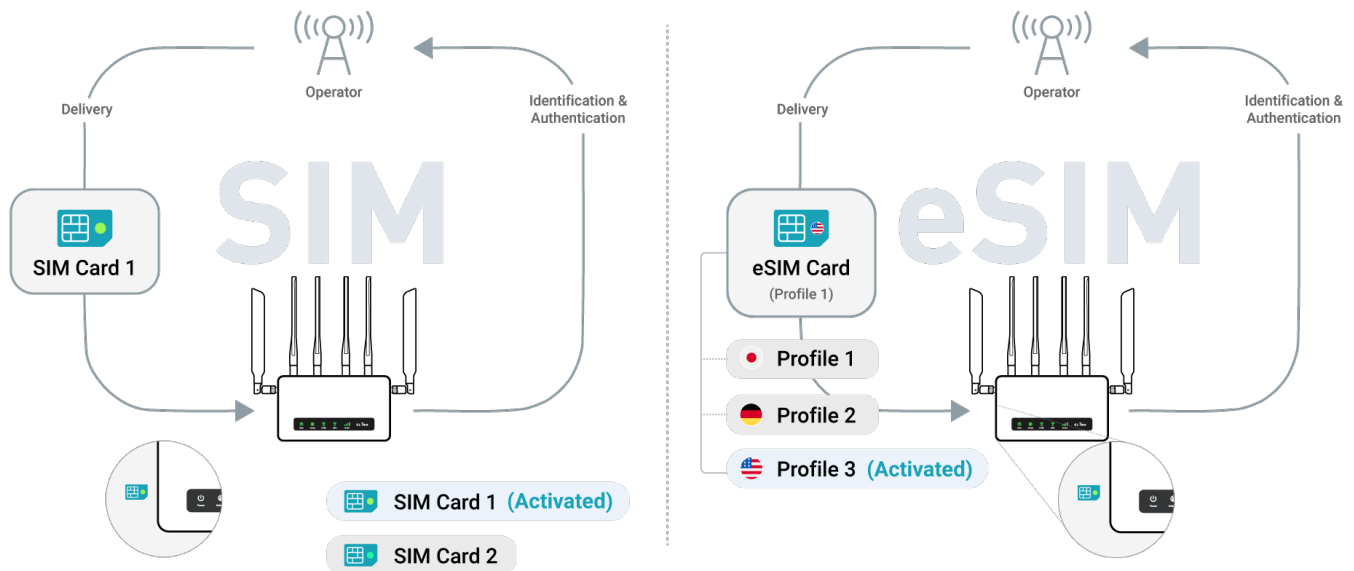
GL.iNet offers both eSIM chip cards and physical eSIM cards, featuring identical product configurations and usage methods.

To streamline the production process and address the complexities of chip soldering in routers, GL.iNet has developed a plug-and-play physical eSIM card.

This solution is ideal for initial sampling or small batch shipments. For bulk orders or specialized industrial applications, the eSIM chip card can be seamlessly integrated during

production.

What's the difference between a Traditional SIM and an eSIM (chip/physical card)?



The benefits of using eSIM

eSIM benefits for Consumers

Convenience

Users can download and activate their eSIMs over the air without needing to visit a store or wait for a SIM card to be delivered.

Flexibility

Easily switch between different network operators without the need to replace a physical SIM card

Cost Savings

Save money by using local carriers and avoiding expensive roaming charges, making it more economical for international travel.

Enhanced Security

Reduces the risk of SIM card theft and cloning, providing a higher level of security for personal data and network connections.

eSIM benefits for Businesses

Efficiency Management

Centralized device management streamlines configuring employee devices and allows for remote management.

Multi-Device Support

Compatible with a wide range of devices, including smartphones, tablets, wearables, and IoT devices.

Environmental Impact

Reduces plastic waste by eliminating the need for physical SIM cards and reducing shipping and logistics.

Secure Data Management

Utilizes encrypted communication and secure profiles, making it harder for unauthorized access or cloning.

Why Choose eSIM with GL.iNet

Versatile and User-Friendly eSIM Modes

GL.iNet supports both physical eSIM card mode and eSIM chip card mode. The physical eSIM card simplifies usage and is perfect for individual users, while the eSIM chip card is designed for bulk orders and specialized industrial applications, ensuring that all needs are met efficiently.

Easy and Flexible Profile Management

GL.iNet offers intuitive profile management programs that enable editing (adding/deleting/enabling) profiles stored on the card. With the capacity to store multiple profiles, users can easily switch between operators and countries, ensuring smooth and adaptable connectivity worldwide.

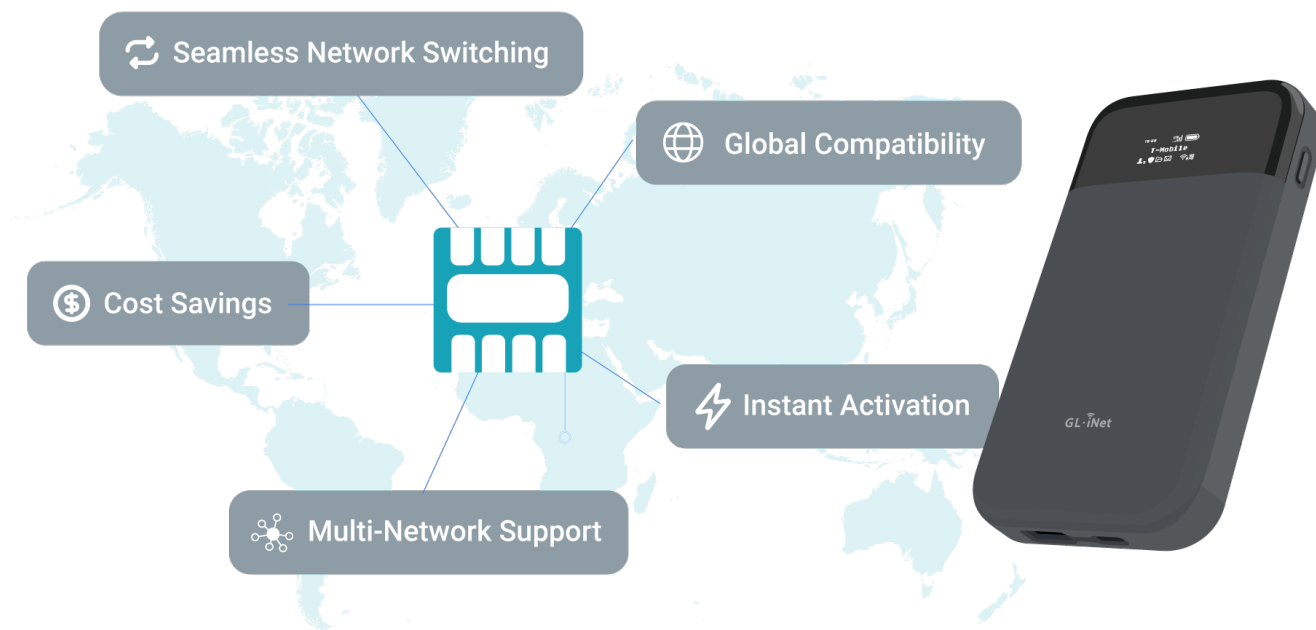
Global Compatibility and Secure Online Purchase

GL.iNet's eSIM solutions are compatible with profiles from most eSIM stores worldwide. Users can purchase eSIM profiles online without providing personal information, significantly reducing the risk of privacy leakage and enhancing security.

Initial Free Data and Seed Profile Presets

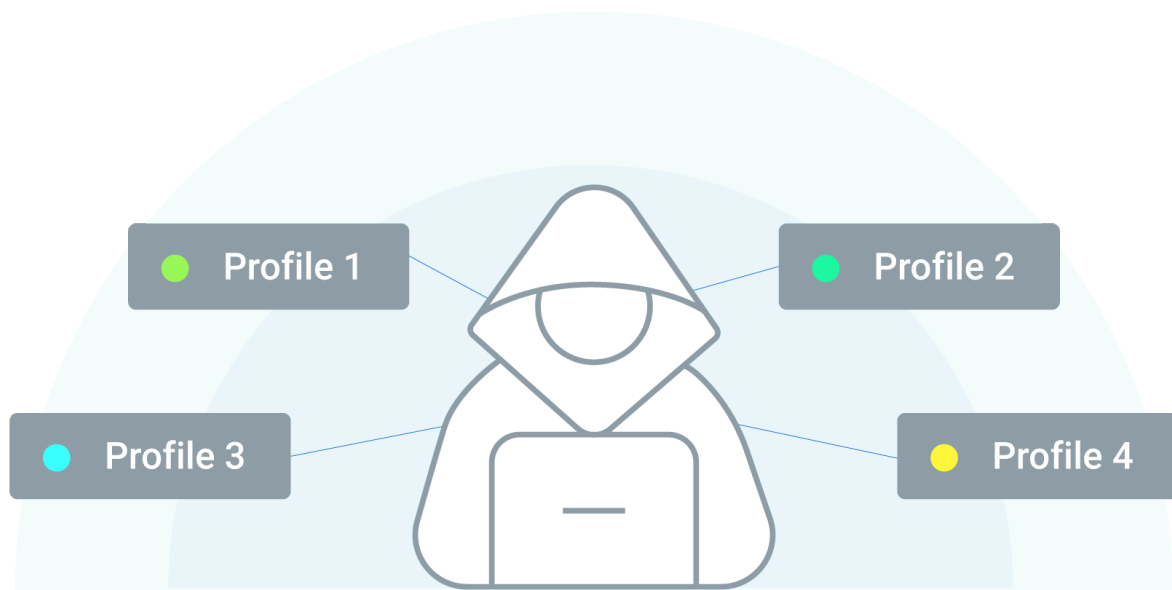
GL.iNet's seed profile includes free data (1GB for US/EU and 100MB Global), providing easy initialization and basic testing for the device.

eSIM Scenarios



eSIM offers unmatched convenience and flexibility for travelers and business professionals. It streamlines communication during international trips, significantly reducing roaming costs and ensuring you stay connected wherever you go. Users can effortlessly switch between network carriers while traveling through different countries, enjoying fast and affordable network services.

For business trips, eSIM eliminates the need to swap SIM cards, avoiding any disruption to your connectivity. Most eSIM providers offer global network coverage, ensuring stable mobile connections worldwide. Whether you're handling urgent emails, attending video conferences, or using a corporate VPN, eSIM ensures you stay connected without limitations.

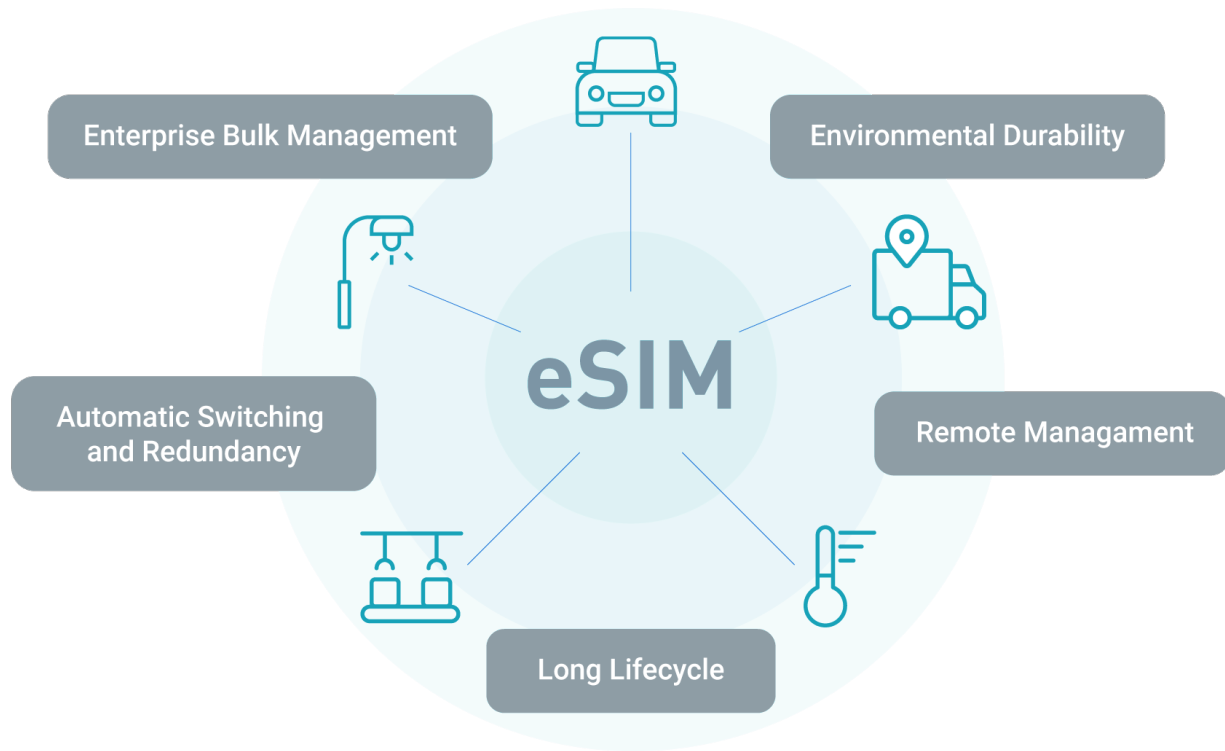


Anonymous Data Plan Purchase

Users can anonymously purchase eSIM data plans through online stores, reducing the need to provide personal information during the SIM card purchase process. This minimizes the risk of unnecessary personal data exposure, especially beneficial for short-term use or travel when users prefer to keep their personal details private.

Multiple eSIM Profiles

Users can store multiple eSIM profiles (data plans) within a single eSIM card and switch between them periodically based on their needs. This prevents long-term tracking by carrier base stations on a specific plan, enhancing privacy and reducing the risk of being monitored over extended periods.



eSIM technology is widely used in industrial applications like remote device management, asset tracking, smart manufacturing, and energy management. It offers global network coverage and remote configuration, allowing devices to switch networks seamlessly and enabling real-time monitoring, data transfer, and remote diagnostics. This reduces reliance on traditional SIM cards and simplifies equipment deployment and maintenance while enhancing data security.

The durable, embedded design of eSIM is ideal for harsh environments such as mining and oil exploration, improving efficiency and reliability. eSIM also adapts quickly to changing network needs, helping businesses meet the challenges of global operations effectively.



How Does eSIM Work with GL.iNet Routers

1. Insert the eSIM

If you're using a physical eSIM card, please insert it into the router. If you're using an eSIM chip, simply power on the device to begin.

2. Access the Admin Panel

Open the Admin Panel on your router and navigate to "eSIM Manage" under the Applications section.

3. Purchase an eSIM Profile

Purchase an eSIM profile online and download the provided QR code.

4. Download and Install the eSIM Profile

Use the Admin Panel to upload the QR code to your router, then download and install the eSIM profile.

5. Enable and Connect

Enable the eSIM card in the Admin Panel and enjoy seamless internet connectivity.

Routers Compatible with GL.iNet eSIM



Spitz (GL-X750V1※/X750V2※)

Connecting Traditional Devices to the Internet

[Learn More](#) [SHOP NOW](#)

※Products with Quectel EP06-A modules do NOT support eSIM, as the Qualcomm software lacks specific AT command support. For products with EP06-E modules, please refer to this [LINK](#) to upgrade to the latest firmware and enable eSIM functionality.

How to Set Up Your eSIM with the GL.iNet Router for the First Time



Prefer to read the full guide? Check out our documentation [here](#)

Contact Our Sales Team

You're more than a customer. You're our business partner. We're here to help!