

# Looking for cost-effective, secure IoT connectivity options? We've got you covered.

**Verizon NB-IoT combines modules, network services and the ThingSpace management platform to support your LPWAN IoT applications.**

There's a reason businesses of all sizes and in all industries are investing in Internet of Things (IoT) strategies: Turning the devices that power your business into connected IoT devices can help you work smarter and more efficiently. But IoT is not a one-size-fits-all solution, and in many cases how you connect can be just as important as what you connect. We understand that different IoT applications have different technology needs and different budgets, and we want to give you the options you need to find the best fit for you. Which is why we're introducing **Verizon Narrowband IoT (NB-IoT)**.

Verizon NB-IoT provides a cost-effective option for IoT applications that depend on low-power wide area network (LPWAN) connectivity. As the latest addition to our line of LTE connectivity options, NB-IoT was designed to complement LTE-M (also known as CAT-M1), giving you the freedom to choose the level of connectivity that's best for your specific IoT application needs.

LTE-M and NB-IoT are both designed for LPWAN. While LTE-M is designed to support the higher bandwidth of LPWAN technology and is ideal for fixed and mobile applications, Verizon NB-IoT is designed specifically to suit the needs of stationary IoT applications that demand only small transmissions of data, thereby connecting to the network less often. By reducing the frequency and size of connections, Verizon NB-IoT offers dramatically improved power optimization. This extended battery life—which can last more than 10 years in some cases—makes it an ideal option for IoT applications in hard-to-connect places that require regular but less frequent monitoring.

We also understand that your IoT deployment is likely made up of many diverse applications that execute a variety of functions, which is why we've designed NB-IoT to work alongside LTE-M. Depending on how it's being used, each device can be assigned to the network option that best suits your IoT applications.

**Like LTE-M, Verizon NB-IoT is an additional—and complementary—LPWAN connectivity option, so you can make the choice that's best for your IoT application.**

## Do IoT your way.

There is no wrong way to design your IoT strategy, but Verizon NB-IoT gives you options to make the right choices. Verizon NB-IoT is a comprehensive solution that includes:



### Modules

To help you develop the right NB-IoT devices for your IoT applications, we have teamed up with a number of trusted partners to provide you with a rich ecosystem of certified modules. We also offer free self-certification for NB-IoT devices, design consultations and power-saving features to help you build your IoT devices cost-effectively.



### Connectivity

Verizon NB-IoT network service is a cellular connectivity offering that provides data and SMS services, ubiquitous extended long-range coverage, and improved indoor and underground coverage. All on a reliable, scalable and secure LTE network.



### The ThingSpace management platform

To give you a single-pane-of-glass management experience, we've packaged this solution with ThingSpace Manage, a self-service portal where you can manage your NB-IoT connectivity, devices and data.

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## IoT meets the LTE evolution.

Your IoT plans depend on reliable connectivity. So you need a network you can depend on to deliver your data, when and how you need it. Verizon NB-IoT leverages LTE network features for IoT applications requiring ultra-low throughput and power consumption, as well as deep in-ground coverage. Verizon NB-IoT network technology occupies a frequency of 200 kHz bandwidth and is deployed in an LTE guard band that doesn't compete with regular LTE traffic. Which means NB-IoT users aren't sharing network resources with commercial smartphone traffic. So you're getting connectivity that is dedicated to supporting your IoT applications.

It's all part of the LTE evolution.

**NB-IoT is a reliable, scalable and secure solution that offers low component costs, long-range connectivity, enhanced indoor and underground coverage, long battery life and dedicated bandwidth for stationary LPWAN IoT applications.**

## Why Verizon

Connectivity can be complex. At Verizon, we understand that different types of IoT devices have different connection needs. As the latest addition to our LTE portfolio of offerings, NB-IoT is a supplement to our LTE-M offering, so you can select the best technology based on your IoT application needs to transform your business. Our new NB-IoT offering is a natural extension of the investment we've made in building a superior network with the reliability, coverage and security that our customers have come to rely on. We're committed to helping you take advantage of today's technologies while preparing you to evolve as future technologies emerge.

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## Learn more:

To learn more about how Verizon NB-IoT can help with your IoT strategies, contact your Verizon Wireless business specialist.