

5G technology: Why—and how—it matters

This is Enterprise Intelligence.

FAQs

Q. What exactly is 5G?

- A. 5G is the fifth generation of cellular mobile communications. To understand 5G, it's helpful to understand what came before it. 1G, the first generation of mobile technology, gave us mobile voice. 2G introduced a short-messaging layer, which is still part of today's texting features. 3G delivered the network speeds necessary for smartphones. And 4G, with its fast data-transfer rates, empowers many of today's connected devices and services.

5G can provide data transfer rates many times faster than the blink of an eye, massive bandwidth, and greater connectivity and reliability.

These attributes help fuel technologies such as artificial intelligence (AI), real-time analytics, Massive Internet of Things (MIoT) and more. This is Enterprise Intelligence, helping you build a smarter, more agile organization.

Q. What makes a 5G network?

- A. 5G is a collection of different technologies and tools used to advance wireless capabilities.

Q. Why Verizon 5G?

- A. Verizon is known for its reliability and award-winning networks. And Verizon 5G Ultra Wideband is supported by:
- 1. Massive fiber resources.** We have spent years deploying a massive fiber network while densifying our 4G LTE network with fiber-fed small cells. This fiber network is integral to delivering a revolutionary 5G network
 - 2. Small-cell deployment.** Verizon has also spent years installing new small cells to densify its 4G LTE network. Many 4G locations will be used for 5G

- 3. Critical spectrum holdings.** Verizon has secured a large portfolio of millimeter-wave, C-Band and low-band spectrum to help support innovative opportunities for business customers

- 4. Edge computing.** We have network locations nationwide that are ideally suited to housing edge-computing resources. Edge computing enables cloud servers to run closer to endpoints, reducing latency and speeding local processing

Q. What will the 5G network enable?

- A. With blazing speeds, wide bandwidth and low latency, 5G Ultra Wideband could help autonomous vehicles, cloud-connected traffic control, high-precision industrial automation, augmented and virtual reality, and other applications that depend on high speeds and low latencies to live up to their potential.

It is also expected to unleash the potential of the Internet of Things (IoT) with low-latency links.

Verizon is working with local innovators to grow the 5G ecosystem at our 5G Labs in places like New York City; Washington, DC; Cambridge; Palo Alto; and Los Angeles.

Together, we are exploring the boundaries of 5G network technology, co-creating new applications and hardware and rethinking what's possible.

The possibilities for how you use near real-time insights and how you approach your business and new opportunities are endless. This is Enterprise Intelligence.

Q. When and where will the Verizon 5G Ultra Wideband network be available?

A. The Verizon 5G future has arrived.

For an always-current list of cities where you can experience Verizon 5G Ultra Wideband and to choose from the widest selection of 5G devices available on any 5G network, visit [verizonwireless.com/5g/coverage-map/](https://www.verizonwireless.com/5g/coverage-map/)

And don't worry, 4G LTE is not going away anytime soon. Verizon offers great capabilities to support multiple services. We have invested in a wide range of spectrums that will continue to support 4G LTE devices for the foreseeable future. So our customers can continue building robust machine-to-machine (M2M) sensor networks with low-cost and low-power CAT-1, CAT-M1 and Narrowband IoT (NB-IoT) connections today, as well as establish the data pipeline they will use in their 5G ecosystems tomorrow.

Learn more:

Contact your Verizon Business Account Manager or visit [verizon.com/business/solutions/5g/](https://www.verizon.com/business/solutions/5g/)

