

# What is 5G

5G is the 5th generation mobile network. It is a new global wireless standard after 1G, 2G, 3G, and 4G networks. 5G enables a new kind of network that is designed to connect virtually everyone and everything together including machines, objects, and devices.

5G wireless technology is meant to deliver higher multi-Gbps peak data speeds, ultra low latency, more reliability, massive network capacity, increased availability, and a more uniform user experience to more users. Higher performance and improved efficiency empower new user experiences and connects new industries.

What are the differences between the previous generations of mobile networks and 5G?

The previous generations of mobile networks are 1G, 2G, 3G, and 4G.

## **First generation - 1G**

**1980s: 1G delivered analogue voice.**

## **Second generation - 2G**

**Early 1990s: 2G introduced digital voice (e.g. CDMA- Code Division Multiple Access).**

## **Third generation - 3G**

**Early 2000s: 3G brought mobile data (e.g. CDMA2000).**

## **Fourth generation - 4G LTE**

**2010s: 4G LTE ushered in the era of mobile broadband.**

**1G, 2G, 3G, and 4G all led to 5G, which is designed to provide more connectivity than was ever available before 5G is a unified, more capable air interface. It has been designed with an extended capacity to enable next-generation user experiences, empower new deployment models and deliver new services.**

**With high speeds, superior reliability and negligible latency, 5G will expand the mobile ecosystem into new realms. 5G will impact every industry, making safer transportation, remote healthcare, precision agriculture, digitized logistics — and more — a reality.**