

Difference Between 3G and 4G

The difference between 3G and 4G based on various factors such as upload rate, network architecture, generation, frequency, and a lot more are mentioned in the table below.

3G vs 4G	
3G Technology	4G Technology
3G stands for the third generation.	4G stands for the fourth generation.
5Mbps is the maximum upload rate of 3G.	500Mbps is the maximum upload rate of 4G.
The maximum download rate of 3G: 21Mbps.	The maximum download rate of 4G: 1Gbps.
Uses only the packet switching technique.	Uses packet switching and message switching techniques.
Based on wide-area cell network architecture.	It is an integration of wide-area cell-based architecture as well as LAN.
The frequency range is between 1.8 GHz to 2.5 GHz.	The frequency range is between 2 GHz to 8 GHz.

What is 3G Technology?

The 3G, third-generation technology, is a standard for mobile telecommunication. The standards set forth the criteria for transmitting data, like using airwaves for voice and data transmission.

The 3G technology was launched in 2001 in Japan to provide wireless mobile communication. It offers a faster transmission rate or speed than the older generation (2G). The difference between 3G and 4G exists as 4G is the improvised

version of 3G that overcomes all the setbacks of 3G technology. The differences between the two will be cleared as we proceed through the article.

What is 4G Technology?

The definition of 4G has evolved through the years. However, the fact remains the same 4G technology is an improved and more advanced technology than 3G. 4G stands for the fourth generation. It is considered or alternately called LTE (Long Term Evolution).

The fourth-generation mobile computing was launched in December 2009 by TeliaSonera telecom operator. The speed of a 4G network is at least 100Mbps. Any network to be declared as 4G needs to qualify the speed criteria of 100Mbps data transmission.

