



X16 LTE Modem

The first commercially announced cellular modem designed to support

Gigabit Class LTE

Mind-blowing speeds of up to

1 gigabit per second

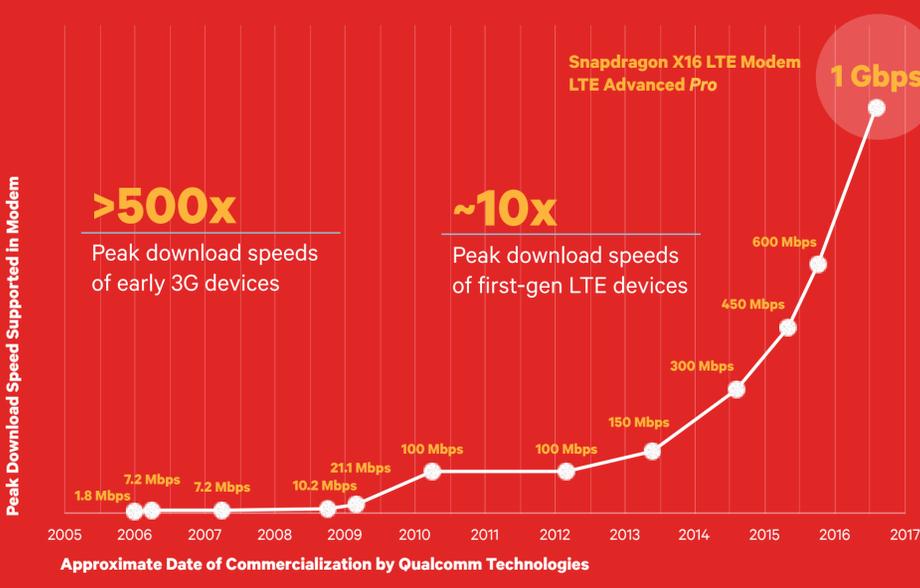


That's ridiculously fast. Fiber optic cable fast.

But "cable" isn't part of Snapdragon's vocabulary. So we designed the Snapdragon X16 LTE modem to give you those speeds wirelessly. Nice.



And it's more than just fast. It marks a big milestone for the whole mobile industry. Look how far (and how fast) we've come.



What will you do with Gigabit Class LTE speeds?



Stream a concert in virtual reality.

Feel like you're really there. With Gigabit Class LTE, you can stream the event right to your device, all in live 360° video.



"Infinite extension" to your storage.

With speeds that rival the read speeds of local flash memory, Gigabit Class LTE lets you use the cloud as an "infinite extension" to your device's storage.



Communicate with clarity.

Forget choppy video. With Gigabit Class LTE speeds, you can enjoy fluid 60fps HD video chat and screen sharing with several people at once.



Download a movie in seconds.

Got a long flight? With Gigabit Class LTE speeds, you can load up on your favorite flicks in glorious HD... before it's time to put your device in airplane mode.

Arthur C. Clarke wrote,

"Any sufficiently advanced technology is indistinguishable from magic."

And looking at how the Snapdragon X16 LTE modem achieves Gigabit Class LTE speeds, we couldn't agree more.

MORE LTE Connections
Antennas
Advanced Signal Processing



Up to four LTE connections

The Snapdragon X16 LTE modem can bond together up to four LTE connections using carrier aggregation, to create a wider, faster connection. And because it's an LTE Advanced Pro modem, with support for Licensed Assisted Access (LAA), it allows operators around the world to use unlicensed spectrum for some of those connections — opening up the possibility for more operators to offer Gigabit Class LTE.

The Snapdragon X16 LTE modem uses 4x4 MIMO (multiple input, multiple output) technology to receive data on up to four antennas simultaneously. That's twice the number of antennas found in traditional LTE devices, allowing your device to receive 10 unique streams of LTE data simultaneously, each contributing ~100 Mbps of peak throughput.



Stream on 1st LTE carrier
Stream on 2nd LTE carrier
Stream on 3rd LTE carrier

6 bits



64-QAM

+33%

8 bits



256-QAM

The Snapdragon X16 LTE modem supports 256-QAM (quadrature amplitude modulation) in the downlink. That means it uses advanced signal processing to discern more 1s and 0s of data from each LTE transmission. The result is 33% faster throughput versus traditional LTE devices.

Is this **4G** or **5G**?

It's the future. And it has arrived sooner than you expected. Thanks to the astounding speed of the Qualcomm Snapdragon X16 LTE modem.

