**LTE Advanced Carrier Aggregation supporting CAT6 data speeds of up to 300Mbps**

Qualcomm® Snapdragon™ 810 first announced chipset to support up to 3x20Mhz Carrier Aggregation

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**Conventional LTE Network:** Single channel approach to data transfer

![Conventional LTE Network Diagram](image)

- Data Pipe (Up to 150 Mbps)
- 20 MHz
- Second LTE radio channel is idle when device receives on the other channel
- Third LTE radio channel is idle when device receives on the other channel

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**LTE Advanced Network:** 2x Carrier Aggregation CAT6 effectively doubles data rates

![LTE Advanced Network Diagram](image)

- Aggregated Data Pipe (Up to 300 Mbps)
- 20 MHz
- 20 MHz
- 40 MHz
- 2x Faster

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**LTE Advanced Network:** 3x Carrier Aggregation CAT6 effectively doubles data rates

![LTE Advanced Network Diagram](image)

- Aggregated Data Pipe (Up to 300 Mbps)
- 10 MHz
- 10 MHz
- 20 MHz
- 40 MHz
- 2x Faster

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**Key Points:есь**

- **280 LTE networks** are commercially launched in 101 countries as of March 2014*
- **1563 LTE user devices** announced by 154 suppliers and 3 devices support CAT6*
- **340 tri-band (1.8/2.6/0.8 GHz)** LTE devices announced*
- **LTE CAT6 Networks require 40 MHz spectrum to achieve 300 Mbps peak data rates**
- **MAX CAT6**
  - For FDD operators without 40 MHz of spectrum in 2 bands, LTE Advanced 3X carrier aggregation enables maximum CAT6 data rates using 10+10+20 MHz
  - Qualcomm® Snapdragon™ 810 processor and Qualcomm® Gobi™ 9x35 modem first announced LTE Advanced CAT6 carrier aggregation support

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* Source: GSA, March 2014