LTE-Advanced Pro

The last 4G technology jump before 5G

FACTS about the world's first LTE-A Pro modules







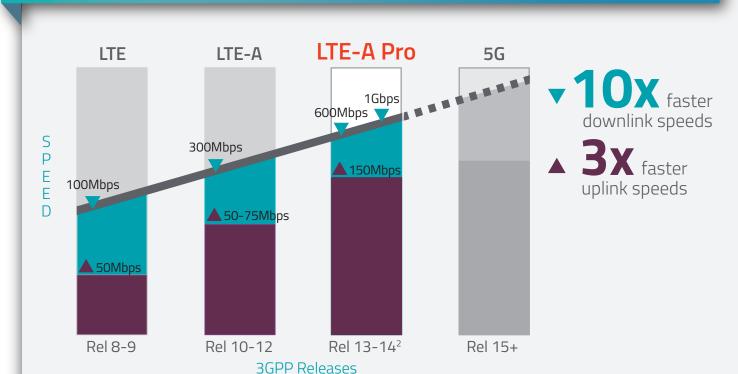
¹Comparing to LTE Cat-3 technology







The Evolution of LTE to 5G



² Release 14 categories are currently being defined by 3GPP.

Comparing the Speeds and Features

					LTE-A Pro modules	
Speed	Cat-3	Cat-6	Cat-9	Cat-11	Cat-12	Cat-16
Downlink	100Mbps	300Mbps	450Mbps	600Mbps	600Mbps	1Gbps
Uplink ³	50Mbps	50Mbps	50Mbps	75Mbps	150Mbps	150Mbps
QAM	64	64	64	64	256	256
Features	Cat-3	Cat-6	Cat-9	Cat-11	Cat-12	Cat-16
LTE-LAA ⁴ (5Ghz) -		-	-	-	✓	/
CBRS ⁴ (3.5Ghz) -		-	-	-	✓	/
Public Safety	Public Safety Band 14 for FirstNet™, Ba			nds 20 & 28 for Europe		

³Uplink speed based on configuration of modules in the market ⁴Features available with select modules only Information collected from the 3GPP website.

How does LTE achieve 1Gbps speed?

The technology enabling the data super highway (where passenger = data)



a single highway with standard size cars traveling on it.

Highway expansion

Carrier Aggregation is like adding a highway

Unlicensed Band is like moving some traffic to parallel service roads



is like adding a highway on top of a highway

4x4 MIMO



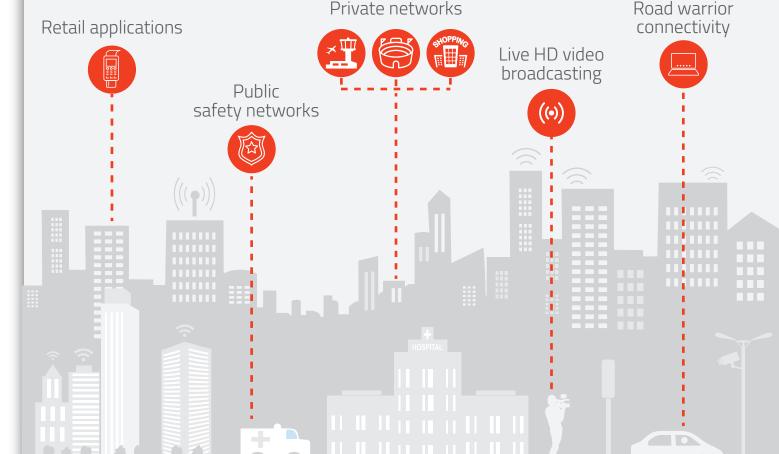
256 QAM is like adding more people per vehicle

Additional passengers per vehicle





The use-cases for LTE-Advanced Pro





For more information, visit sierrawireless.com

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