

## CableFree LTE Network Dimensioning Calculator

Updated 21/04/2016 SJP

Disclaimer: this is a simple calculation tool, real-world coverage depends on terrain and other factors

LTE Version: Release 12 (LTE-Advanced, 2016)

Simple Diagram of LTE coverage: 3-sector base stations

Total Coverage Area Required

50 km diameter

LTE 3-sector Base Station Coverage Diameter approx

5 km

Proposed number of LTE Base Stations

19

Each BS has 3 sectors, 2x2 MIMO  
Can upgrade to 6 sectors  
Can upgrade to 4x4 MIMO

Capacity per-sector

10 MHz channel

Downlink

60.30 Mbps

Uplink

3.77 Mbps

Capacity per base station

3 sectors

180.91 Mbps

11.31 Mbps

Total Network Capacity

Downlink

3.437292 Gbps

Uplink

0.214831 Gbps

Subscriber Units

Fixed CPEs

Qty

10000

Capacity

Max

150 Mbps

51 Mbps

Average

20 Mbps

5 Mbps

Total

200 Gbps

50 Gbps

Mobile CPEs

Qty

0

Capacity

Max

102 Mbps

51 Mbps

Average

5 Mbps

1 Mbps

Total

0 Gbps

0 Gbps

Total CPE capacity (Fixed + Mobile)

Downlink

200 Gbps

Uplink

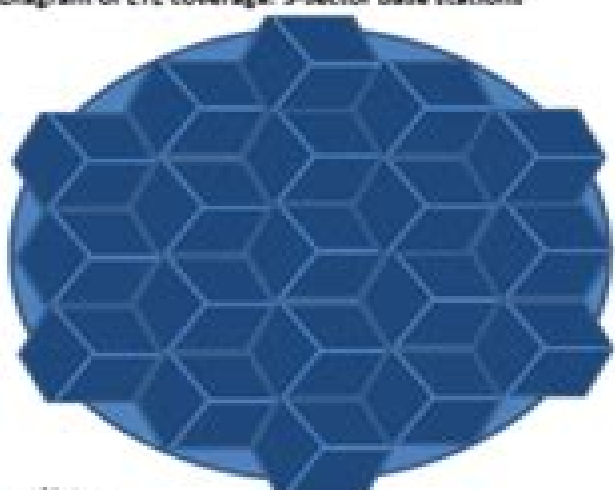
50 Gbps

Contention Ratio

(from Total Network Capacity and Total CPE Capacity)

58.19 :1

232.74 :1



Notes:

Assume 19 Base Stations total, each 3 sectors  
Band proposed is 3.5GHz (30MHz allocation). TDD allocation  
Assume 80% DL, 10% UL (and 10% overhead). You can change cell C26 on TDD tab to alter  
Capacity DL and UL figures from TDD tab below: assumes 64QAM modulation, 2x2 MIMO  
Real-world max capacity could be lower for clients drop below 64QAM (long range, etc)  
Total Capacity assumes that no limits on backhaul from eNodeB to Core (EPC)  
(Does not refer to Internet uplink capacity - which is likely much less than this)

Fixed CPEs:

Assume Category 4 UE  
2x2 DL, 1x1 UL  
150Mbps DL, 51Mbps UL  
64QAM Modulation Max

Mobile CPEs:

Assume Category 3 UE  
2x2 DL, 1x1 UL  
102Mbps DL, 51Mbps UL  
64QAM Modulation Max

# Dimensioning Of Lte Network Aalto

**R Sandford**



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