

# Global LTE Base Station Market 2013-2018: The Next Generation Infrastructure for 4G Mobile Telecommunications

<https://marketpublishers.com/r/G3CA01C9CDAEN.html>

Date: March 2013

Pages: 0

Price: US\$ 2,400.00 (Single User License)

ID: G3CA01C9CDAEN

## Abstracts

### Report Details

Mobile telephony is hurtling towards widespread access to fourth generation standards, promising higher quality voice and mobile ultra-broadband internet access. Less than five years after 3G smartphones revolutionised the mobile market, consumers worldwide are clamouring for mobile broadband speeds that will soon exceed the capacity of current networks. In a haste to deliver next-generation networks, mobile operators are seeking to expedite 4G spectrum acquisition and transform their infrastructure.

LTE base stations will be the last link in a chain connecting users to the mobile network, and one of many crucial components in delivering the quality of service that will separate incumbency from obsolescence. Visiongain has determined that the value of the global LTE base station market will reach \$6.37bn in 2013.

### What makes this report unique?

Visiongain consulted with industry experts and a full transcript of our exclusive interview with Kevin Baughan, Director of Wireless at Virgin Media, is included in the report. As such, our reports have a unique blend of primary and secondary sources providing informed analysis. This methodology allows insight into the key drivers and restraints behind market dynamics and competitive developments, as well as identifying the technological issues. The report therefore presents an ideal balance of qualitative analysis combined with extensive quantitative data including global, submarket, and regional markets forecasts from 2013-2018 - all of which identify strategic business

opportunities.

## **Why you should buy Global LTE Base Station Market 2013-2018: The Next Generation Infrastructure for 4G Mobile Telecommunications**

Stay ahead with this comprehensive analysis of LTE base station market prospects

The report comprises 121 pages

Get ahead by studying highly quantitative content that delivers solid conclusions benefiting your research and analysis

66 tables, charts, and figures quantifying and forecasting the market

Read an exclusive expert opinion interview from an industry specialist informing the analysis

Kevin Baughan, Director of Wireless for Virgin Media

View global market forecasts from 2013-2018 by market value (\$m) and shipments (units) to keep your knowledge one step ahead of the competition

In addition to providing forecasts of the market, the report also examines key technologies, submarkets, and early LTE projects that form the foundation of this rapidly expanding arena.

Keep informed about the potential for each of the technologies with submarket forecasts from 2013-2018 by market value (\$m) and shipments (units)

LTE macrocells

LTE microcells

LTE picocells

LTE public space femtocells

LTE metrocells

Keep up to date with regional opportunities and market dynamics with LTE base station forecasts for the following regions -

North America

Latin America

Europe

Asia Pacific

Middle East & Africa

Learn about LTE development projects and operator strategies in the following countries 2013-2018

US

China

Germany

Slovakia

Sweden

Norway

Hungary

UK

Egypt

Qatar

Bahrain

Kuwait

Brazil

Mexico

Argentina

Understand the competitive landscape with market share data for the leading 7 LTE base station vendors

profiles of 16 leading LTE base station vendors and operators, examining their positioning, products, services, focus, strategies and outlook.

Nokia-Siemens Networks

Ericsson

Alcatel-Lucent

Huawei

ZTE

Samsung

NEC

AT&T

China Mobile

Etisalat

Telefonica O2

TeliaSonera

T-Mobile

Verizon Wireless

Vodafone

Zain

Discover the qualitative analysis informing the market forecasts

SWOT analysis of competitive factors: strengths, weaknesses, opportunities and threats revealing what drives and restrains the industry and the prospects for established companies and new market entrants.

### **How the Global LTE Base Station Market 2013-2018: The Next Generation Infrastructure for 4G Mobile Telecommunications report can benefit you**

Visiongain's report is for anyone requiring analysis of the LTE base station industry and market. You will discover market forecasts, technological trends, predictions and expert opinion providing you with independent analysis derived from our extensive primary and secondary research. Only by purchasing this report will you receive this critical business intelligence revealing where revenue growth is likely and where the lucrative potential market prospects are.

If you buy our report today your knowledge will stay one step ahead of your competitors. Discover how our report could benefit your research, analyses and strategic decisions making, saving you time. To gain an understanding of how to tap into the potential of this market and keep one step ahead of the competition you must order our report **Global LTE Base Station Market 2013-2018: The Next Generation Infrastructure for 4G Mobile Telecommunications**.

## Contents

### **1. EXECUTIVE SUMMARY**

- 1.1 Global Market Overview
- 1.2 Situating Base Stations in the LTE Market
- 1.3 From Homogeneous to Heterogeneous Networks
- 1.4 Structure of the Report
- 1.5 Market Definition
- 1.6 Key Findings of this Report
- 1.7 Methodology

### **2. INTRODUCTION TO LTE TECHNOLOGY AND BASE STATIONS**

- 2.1 LTE Development History
  - 2.1.1 LTE Release 8 / 9 and 10 (LTE-Advanced)
- 2.2 Technologies at Work in LTE Networks
  - 2.2.1 Role of the Radio Access Network
  - 2.2.2 Composition of the Radio Access Network
- 2.3 Base Stations and LTE Network Architecture
- 2.4 The Advent and Importance of Self-Organising Networks
- 2.5 Differentiating between LTE FDD and TD-LTE
- 2.6 Projected LTE Deployments Worldwide

### **3. THE GLOBAL LTE BASE STATION MARKET 2013-2018**

- 3.1 Global LTE Base Station Revenue 2013-2018
- 3.2 Global LTE Base Station Market Drivers and Restraints
- 3.3 Global LTE Base Station Shipment Forecast 2013-2018

### **4. REGIONAL LTE BASE STATION MARKETS 2013-2018**

- 4.1 Regional LTE Base Station Market 2013-2018
- 4.2 The North American LTE Base Station Market 2013-2018
- 4.3 The Asia-Pacific LTE Base Station Market 2013-2018
- 4.4 The European LTE Base Station Market 2013-2018
- 4.5 The Latin American LTE Base Station Market 2013-2018
- 4.6 The Middle East and Africa LTE Base Station Market 2013-2018

## **5. LTE BASE STATION SUBMARKETS 2013-2018**

- 5.1 LTE Base Station Submarket Forecast 2013-2018
  - 5.1.1 LTE Macrocell Submarket Forecast 2013-2018
  - 5.1.2 LTE Microcell Submarket Forecast 2013-2018
  - 5.1.3 LTE Picocell Submarket Forecast 2013-2018
  - 5.1.4 LTE Femtocell Submarket Forecast 2013-2018
  - 5.1.5 LTE Metrocell Submarket Forecast 2013-2018
- 5.2 LTE Base Station Submarkets Shipment Forecast 2013-2018
- 5.3 Macrocells - Is Their Importance Waning with Migration to LTE?
  - 5.3.1 Could Macrocells be a Constraint on Competitive LTE Expansion?
  - 5.3.2 Addressing the Capacity Crunch
- 5.4 Small Cells - Increasingly Dense Usage in Urban LTE
  - 5.4.1 Femtocell Deployments in Public Spaces
    - 5.4.1.1 4G Public Space Femtocell Complementing Macro Coverage
    - 5.4.1.2 The Role of Femtocells in HetNets
  - 5.4.2 The Role of Picocells in Indoor Coverage
  - 5.4.3 Microcells Filling the Macro Gaps
  - 5.4.4 The Novel Concept and Applications of Metrocells
    - 5.4.4.1 How Are Metrocells Lowering LTE Network Costs?
- 5.5 Other Crucial Structures in LTE Networks
  - 5.5.1 How Evolved Node Bs Are Reducing Network Latency
  - 5.5.2 4G Mini eNode B
- 5.6 Overarching Trends in LTE Base Station Deployments

## **6. SWOT ANALYSIS OF THE LTE BASE STATION MARKET 2013-2018**

### **7. EXPERT OPINION**

- 7.1 Kevin Baughan, Director of Wireless, Virgin Media Business
  - 7.1.1 Critical Aspects of Small Cell Trials
  - 7.1.2 Differentiating Metrocell from Femtocell
  - 7.1.3 Overcoming LTE-Related Difficulties
  - 7.1.4 Success Ratio During Trials
  - 7.1.5 The Metrocell: New Concept and Applications
  - 7.1.6 Quantifying 4G Small Cell Deployments
  - 7.1.7 Virgin Media's Partnership with Alcatel-Lucent
  - 7.1.8 Small Cell Types to be Leading Tomorrow's Market

## **8. LEADING VENDORS IN THE LTE BASE STATION MARKET**

### 8.1 Ericsson

#### 8.1.1 Ericsson's RBS 6000 Series eNodeB

### 8.2 Nokia Siemens Networks

#### 8.2.1 NSN's Flexi Multiradio Base Station

#### 8.2.2 Flexi Multiradio 10 Base Station

#### 8.2.3 Flexi Lite Base Station

### 8.3 Alcatel-Lucent

#### 8.3.1 Alcatel-Lucent 9926 Distributed Base Station

#### 8.3.2 Alcatel-Lucent 9412 eNodeB Compact

### 8.4 Huawei

#### 8.4.1 Huawei's Recent Setbacks and Opportunities

#### 8.4.2 Overarching Design Philosophy of Huawei Base Stations

#### 8.4.3 Bringing Flexible Deployment with the BTS3900 and BTS3900A

#### 8.4.4 BTS 3900L

#### 8.4.5 DBS3900

### 8.5 ZTE

#### 8.5.1 ZTE's TD-LTE Range

##### 8.5.1.1 Multimode BBU ZXSDR B8300

##### 8.5.1.2 ZTE's TD-LTE Micro Coverage Solutions

##### 8.5.1.3 How ZTE is Aiming for Broad Commercial Appeal

### 8.6 NEC

#### 8.6.1 NEC's MB4300 Compact eNodeB Base Station

#### 8.6.2 Targeting a Variety of Markets through Small Cells

### 8.7 Samsung

#### 8.7.1 Samsung Macro Base Stations

#### 8.7.2 Small Cell Range

### 8.8 Operator Strategies

#### 8.8.1 AT&T

#### 8.8.2 China Mobile

#### 8.8.3 Etisalat

#### 8.8.4 O2 & Telefonica

#### 8.8.5 TeliaSonera

#### 8.8.6 T-Mobile & Deutsche Telekom

#### 8.8.7 Verizon Wireless

#### 8.8.8 Vodafone

#### 8.8.9 Zain



## **9. CONCLUSIONS**

### 9.1 Global LTE Base Station Market Overview

#### 9.1.1 Global LTE Base Station Market 2013-2018

#### 9.1.2 Global LTE Base Station Shipments 2013-2018

### 9.2 Regional LTE Base Station Market 2013-2018

#### 9.2.1 The North American LTE Base Station Market 2013-2018

#### 9.2.2 The Asia-Pacific LTE Base Station Market 2013-2018

#### 9.2.3 The European LTE Base Station Market 2013-2018

#### 9.2.4 The Latin American LTE Base Station Market 2013-2018

#### 9.2.5 The Middle East and African LTE Base Station Market 2013-2018

### 9.3 The LTE Base Station Submarkets 2013-2018

#### 9.3.1 The LTE Macrocell Submarket 2013-2018

#### 9.3.2 The LTE Microcell Submarket 2013-2018

#### 9.3.3 The LTE Picocell Submarket 2013-2018

#### 9.3.4 The LTE Public Space Femtocell Submarket 2013-2018

#### 9.3.5 The LTE Metrocell Submarket 2013-2018

### 9.4 Overarching Market Trends

### 9.5 Prospects for the LTE Base Station Market

## **10. GLOSSARY**

## List Of Charts

### LIST OF CHARTS

- Chart 3.1: Global LTE Base Station Market Forecast 2013-2018 (\$ bn, AGR %)
- Chart 3.2: Global LTE Base Shipments Market Forecast 2013-2018 (\$ bn, AGR %)
- Chart 4.1: LTE Base Station Regional Market Share Forecast 2013-2018 (\$ billion)
- Chart 4.2: LTE Base Station Regional Market Share Forecast 2013 (%)
- Chart 4.3: LTE Base Station Regional Market Share Forecast 2015 (%)
- Chart 4.4: LTE Base Station Regional Market Share Forecast 2018 (%)
- Chart 4.5: LTE Base Station Regional Market AGR Forecast 2013-2018 (%)
- Chart 4.6: North American LTE Base Station Market Forecast 2013-2018: Macrocell vs. Small Cell (\$ bn, AGR %)
- Chart 4.7: North American LTE Macrocell Submarket Share Forecast 2013, 2015, and 2018 (% share)
- Chart 4.8: Asia-Pacific LTE Base Station Market Forecast 2013-2018: Macrocell vs. Small Cell (\$ bn, AGR %)
- Chart 4.9: Asia-Pacific LTE Base Station Market Share Forecast 2013, 2015, and 2018 (% share)
- Chart 4.10: European LTE Base Station Market Forecast 2013-2018: Macrocell vs. Small Cell (\$ bn, AGR %)
- Chart 4.11: European LTE Base Station Market Share Forecast 2013, 2015, and 2018 (% share)
- Chart 4.12: Latin American LTE Base Station Market Forecast 2013-2018: Macrocell vs. Small Cell (\$ bn, AGR %)
- Chart 4.13: Latin American LTE Base Station Market Share Forecast 2013, 2015, and 2018 (% share)
- Chart 4.14: Middle East and African LTE Base Station Market Forecast 2013-2018: Macrocell vs. Small Cell (\$ bn, AGR %)
- Chart 4.15: Middle East and African LTE Base Station Market Share Forecast 2013, 2015, and 2018 (% share)
- Chart 5.1: LTE Base Station Submarket Forecast 2013-2018 (\$ billion)
- Chart 5.2: LTE Base Station Submarket Share Forecast 2013 (%)
- Chart 5.3: LTE Base Station Submarket Share Forecast 2015 (%)
- Chart 5.4: LTE Base Station Submarket Share Forecast 2018 (%)
- Chart 5.5: LTE Base Station Submarket AGR Forecast 2013-2018 (%)
- Chart 5.6: LTE Macrocell Submarket Forecast 2013-2018 (\$ bn, AGR %)
- Chart 5.7: LTE Macrocell Submarket Share Forecast 2013, 2015, and 2018 (% share)
- Chart 5.8: LTE Microcell Submarket Forecast 2013-2018 (\$ bn, AGR %)

- Chart 5.9: LTE Microcell Submarket Share Forecast 2013, 2015, and 2018 (% share)
- Chart 5.10: LTE Picocell Submarket Forecast 2013-2018 (\$ bn, AGR %)
- Chart 5.11: LTE Picocell Submarket Share Forecast 2013, 2015, and 2018 (% share)
- Chart 5.12: LTE Femtocell Submarket Forecast 2013-2018 (\$ bn, AGR %)
- Chart 5.13: LTE Femtocell Submarket Share Forecast 2013, 2015, and 2018 (% share)
- Chart 5.14: LTE Metrocell Submarket Forecast 2013-2018 (\$ bn, AGR %)
- Chart 5.15: LTE Metrocell Submarket Share Forecast 2013, 2015, and 2018 (% share)
- Chart 5.16: LTE Base Station Submarket Shipment Forecast 2013-2018 (units)
- Chart 5.17: LTE Base Station Submarket Shipment Share Forecast 2013 (%)
- Chart 5.18: LTE Base Station Submarket Shipment Share Forecast 2015 (%)
- Chart 5.19: LTE Base Station Submarket Shipment Share Forecast 2018 (%)
- Chart 5.20: LTE Base Station Submarket Shipment AGR Forecast 2013-2018 (%)
- Chart 8.1: Leading 7 LTE Base Station Vendor Market Share 2013 (%)

## List Of Tables

### LIST OF TABLES

Table 2.1: LTE Functions of eNodeBs

Table 2.2: Difference between FDD-LTE and TD-LTE

Table 2.3 List of Global LTE Commitments by Country and Operator (2012)

Table 3.1: Global LTE Base Station Market Forecast 2013-2018 (\$ bn, AGR %, CAGR %, Cumulative)

Table 3.2: Global LTE Base Station Market Drivers and Restraints 2013-2018

Table 3.3: Global LTE Base Station Shipments Forecast 2013-2018 (units, AGR %, CAGR %, Cumulative)

Table 4.1: Regional LTE Base Station Market Forecast 2013-2018 (\$ bn, % Share, AGR%)

Table 4.2: North American LTE Base Station Market Forecast 2013-2018 (\$ bn, AGR %, CAGR %, Cumulative)

Table 4.3: Asia-Pacific LTE Base Station Market Forecast 2013-2018 (\$ bn, AGR %, CAGR %, Cumulative)

Table 4.4: European LTE Base Station Market Forecast 2013-2018 (\$ bn, AGR %, CAGR %, Cumulative)

Table 4.5: Latin American LTE Base Station Market Forecast 2013-2018 (\$ bn, AGR %, CAGR %, Cumulative)

Table 4.6: Middle East and African LTE Base Station Market Forecast 2013-2018 (\$ bn, AGR %, CAGR %, Cumulative)

Table 5.1: LTE Base Station Submarket Forecast 2013-2018 (\$ bn; AGR %)

Table 5.2: LTE Macrocell Submarket Forecast 2013-2018 (\$ bn, AGR %, CAGR %, Cumulative)

Table 5.3: LTE Microcell Submarket Forecast 2013-2018 (\$ bn, AGR %, CAGR %, Cumulative)

Table 5.3: LTE Picocell Submarket Forecast 2013-2018 (\$ bn, AGR %, CAGR %, Cumulative)

Table 5.4: LTE Femtocell Submarket Forecast 2013-2018 (\$ bn, AGR %, CAGR %, Cumulative)

Table 5.5: LTE Metrocell Submarket Forecast 2013-2018 (\$ bn, AGR %, CAGR %, Cumulative)

Table 5.6: LTE Base Station Submarket Shipment Forecast 2013-2018 (units; AGR %)

Table 5.7: Small Cell Basic Definitional Rubric

Table 5.8: Characteristics Differentiating Femtocell from Picocell

Table 6.1: SWOT Analysis of the LTE Base Station Market 2013-2018

Table 8.1: Ericsson's LTE Contracts by Region

Table 8.2: Principles Guiding Huawei's Base Station Conception and Design

List of Figures

Figure 2.1: Global LTE Base Station Market Overview

Figure 5.1: Femtocell Operation Illustration

Figure 5.2: Femtocell Architecture

Figure 5.3: LTE Network Offloading Trend 2013-2018

Figure 8.1: Global Map of Ericsson's LTE Contracts

## **COMPANIES LISTED**

3

3 Denmark

A1 Telekom

Airspan

Alcatel-Lucent

Algar Telecom

Andorra Telecom

Armentel

AT&T

Augere

Bakrie Telecom

Batelco

Beeline

Belgacome (Proximus)

Bell Labs

Bell Mobility

Bharti Airtel

Bluegrass Cellular

Bouygues Telecom

BSNL

BTC

C Spire Wireless

CellCom

China Mobile

China Telecom

Cisco

Claro

Clearwire

CMHK  
Cosmote  
Cross Telephone  
CSL Limited  
Deutsche Telekom  
DNA  
E Plus  
eAccess  
Elisa  
Emirate Telecommunications  
EMT  
Energy Australia Ausgrid  
Entel Movil  
Entel PCS  
Ericsson  
Etisalat  
Etisalat Misr  
FPT Telecom  
Glo Mobile  
Hi3G  
Huawei  
ICE  
Indosat  
KPN Base  
LGU+  
London Underground  
Magticom  
Magyar Telekom  
MetroPCS  
Mobikom Austria  
Mobily  
Mobinil  
Mobistar  
Moldcell  
Mosaic Telecom  
Motorola  
Movitel  
Movistar  
M-Tel

MTNL  
MTS  
MTS Allstream  
NBN Co  
Ncell  
NEC  
NetAmerica Alliance  
Nokia-Siemens Networks  
Northwest Cell  
NTT DoCoMo  
O2  
Oi  
Oman Tel  
Open Mobile  
Optus  
Orange  
Orange Armenia  
Orange Slovakia  
Orange TBC  
PCCW  
Personal  
Pioneer Cellular  
Polkomtel  
Portugal Telecom  
Qualcomm  
Qualcomm India  
Real Wireless  
Reliance  
Rogers Wireless  
Ruckuss  
S and R Communications  
S&T Telephone Cooperative  
Samsung  
Sasktel  
SFR  
SK Telecom  
Sky Brazil  
Slovak Telekom  
Smartone Vodafone

Softbank  
SpeedConnect  
Sprint  
STC  
Strata Networks  
Swisscom  
TDC  
TelaSonera  
Tele2  
Telefonica  
Telefonica Germany  
Telefonica Slovakia  
Telenet  
TeleNor  
Telenor Magyarország  
TeliaSonera  
Telkomsel  
Telstra  
Telus  
T-Hrvatski Telekom  
Thumb Cellular  
Tikona Digital  
T-Mobile  
T-Mobile Austria  
T-Mobile Croatia  
T-Mobile Czech Republic  
T-Mobile Deutschland  
T-Mobile Hungary  
T-Mobile Macedonia  
T-Mobile Netherlands  
T-Mobile Slovensko  
T-Mobile UK  
T-Mobile USA  
Ucell  
UME EPM  
Une  
United Wireless  
Unitel  
UPC



US Cellular  
VDC  
Verizon  
Verizon Wireless  
VHA  
Videotron  
Viettel  
VIPNet  
Virgin Media  
Viva Bahrain  
Viva Cell-MTS  
Vivid Wireless  
Vivo  
Vodafone  
Vodafone Egypt  
Vodafone Germany  
Wind Mobile  
XL Axiata  
Xplornet  
Yoigo  
Zain Bahrain  
Zain Group  
Zain Kuwait  
ZTE

## **GOVERNMENT AGENCIES AND OTHER ORGANISATIONS MENTIONED IN THIS REPORT**

3GPP  
Australian Financial Review (AFR)  
City of Charlotte Council  
Computer & Communication Industry Association (or CCIA)  
Institute of Electrical and Electronics Engineers (IEEE)  
International Telecommunications Union (ITU)  
Sao Paulo Military Police  
Small Cell Forum  
TASR  
US Congress

## I would like to order

Product name: Global LTE Base Station Market 2013-2018: The Next Generation Infrastructure for 4G Mobile Telecommunications

Product link: <https://marketpublishers.com/r/G3CA01C9CDAEN.html>

Price: US\$ 2,400.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G3CA01C9CDAEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

