+44 20 8123 2220
info@marketpublishers.com

Global Small Cells Market 2013-2018

https://marketpublishers.com/r/G027AA435DFEN.html
Date: July 2013
Pages: 156
Price: US$ 2,400.00 (Single User License)
ID: G027AA435DFEN

Abstracts

Following the widespread growth of smartphones and other portable connected devices in recent years, there has been a huge growth of mobile data consumption. One of the key issues for MNO's has been to address this increasing data traffic demand with sufficient capacity at high speeds. Due to limited spectrum availability and increasing rates of data consumption, the user experience is often somewhat sacrificed.

One of the solutions to the rising wireless broadband capacity crunch is through deploying heterogeneous networks (Hetnets) comprising of macro cells and a range of small cell solutions namely microcells, picocells, carrier Wi-Fi and femtocells.

Small cells are being widely deployed by mobile operators the world over. 2G/3G small cells have already been used widely by operators for quite some time now, for the purposes of boosting network capacity in urban areas, provide wider coverage in rural areas, and furthermore to extend services into large public areas such as train stations, airports and shopping malls. More recently, with the widespread rollout of 4G LTE technologies there has been a renewed vigour in the deployment of 4G small cells in the form of public space femto cells and mini eNode base stations, in order to keep up with the increasing capacity and backhaul requirements for ubiquitous access to mobile broadband at 4G speeds.

Visiongain predicts growth in the small cells market, particularly in the 4G small cell types. The market is poised for vendors and solution providers as there is a huge uptake both from the consumer market, enterprise sector and the mobile operators, driven by limited spectrum and capacity constraints. The overall small cells market is growing and will continue to do so over the forecast period 2013-2018. As a consequence, visiongain has determined that the value of the global small cells market in 2013 will reach a value of $640.8 million.

+44 20 8123 2220
info@marketpublishers.com

Why you should buy the Global Small Cells Market 2013-2018

Stay ahead with this comprehensive analysis of the global small cells market prospects

The report comprises of 156 pages

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

69 tables, charts, and graphs quantifying and forecasting the small cells market

Read exclusive expert opinion interview from a leading industry player informing the analysis

Stoke

View global small cells market forecasts from 2013-2018 to keep your knowledge one step ahead of the competition

The report provides an analytical overview with detailed market revenue projections and analysis of the market, the competitors, and the commercial drivers and restraints.

View global shipment forecasts from 2013-2018 to keep your knowledge one step ahead of the competition

The report provides an analytical overview with detailed shipment unit projections and analysis of the volumes, the competitors, and the commercial drivers and restraints.

Keep informed about the potential for each of the 5 small cells submarkets with forecasts from 2013-2018

2G/3G Microcells

2G/3GPicocells

2G/3G Femtocells

+44 20 8123 2220
info@marketpublishers.com

4G Public Space Femtocells

4G Mini eNode B

You will be able to view 5 small cells shipments forecasts from 2013-2018

2G/3G Microcells

2G/3GPicocells

2G/3G Femtocells

4G Public Space Femtocells

4G Mini eNode B

View a detailed breakdown and analysis of the regional small cells market forecasts from 2013-2018

North America

Asia Pacific

Europe

Latin America

Middle East & Africa

You will be able to study regional small cells shipments forecasts from 2013-2018

North America

Asia Pacific

Europe

Latin America

Middle East & Africa

Understand the competitive landscape with profiles of 69 leading small cells companies examining their positioning, products, services, focus, strategies and outlook.

Ablaze Wireless

Acme Packet

Agilent Technologies

Airspan

Alcatel-Lucent

Altobridge

Aricent Group

AT&T

AWTG

Azcom Technology

Benetel

BLiNQ Networks

Blu Wireless Technologies

BluWan

BridgeWave Communications

Broadcom

+44 20 8123 2220
info@marketpublishers.com

Cambridge Broadband Networks

Cavium

C-COM

Cisco Systems

Contela

CS Corporation

DragonWave

EDX Wireless

Ericsson

Fastback Networks

Fujitsu

Hitachi

Huawei

iDirect

Infovista

InterDigital

Intracom Telecom

Ip.access

Ixia

+44 20 8123 2220
info@marketpublishers.com

Juni Global

MimoOn/Tektelic

Mindspeed Technologies

Nash Technologies

NEC

Nice

Nokia Siemens Networks

Option N.V.

PicoCELA

Public Wireless

PureWave

Qualcomm

Quortus

Radisys

RADWIN

Rakon

Ranplan

Samsung

Siklu

SK Telesys

SoftBank

SpiderCloud Wireless

Stoke

SUB10 Systems

Tarana Wireless

Tatara Systems

TE Connectivity

Texas Instruments

Ubiquisys

u-blox

VECTRON International

Vodafone

ZTE

Discover the qualitative analysis informing the market forecasts

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

What makes this report unique?

Visiongain consulted widely with small cell industry experts and a full transcript from an

exclusive interview with Stoke 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 small cell 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 small cell shipment and market value forecasts from 2013-2018 - all identifying strategic business opportunities.

How the Global Small Cells Market 2013-2018 report can benefit you

Visiongain's report is for anyone requiring analysis of the global small cells 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.

You can order this report today

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, 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 now our report the Global Small Cells Market 2013-2018

+44 20 8123 2220
info@marketpublishers.com

Contents

1. EXECUTIVE SUMMARY

1.1 Increasingly Ubiquitous Mobile Broadband Driving the Need for Additional Small Cell Deployments
1.2 Mobile Broadband Penetration at an All Time High
1.3 Addressing Deployment Aspects to Increase Operator Profitability
1.4 Status of Small Cells Deployments
1.5 Market Outlook
1.6 Key Findings of the Report
1.7 Aim of the Report
1.8 Structure of the Report
1.9 Report Scope
1.10 Highlights in the report include:
1.11 Who is This Report For?
1.12 Questions Answered by this Report
1.13 Benefits of This Report
1.14 Methodology
1.15 Points Emerged from this Research
1.16 Global Small Cells Market Forecast 2013-2018
1.17 Global Small Cell Shipments Forecast 2013-2018
1.18 Global Small Cells Submarket Forecast 2013-2018
1.19 Global Small Cell Shipments Submarket Forecast by Type 2013-2018
1.20 Regional Small Cells Market Forecast 2013-2018
1.21 Regional Small Cell Shipments Forecast 2013-2018

2. INTRODUCTION TO THE SMALL CELLS MARKET

2.1 The Concept of Heterogeneous Networks (HetNets)
2.2 Defining Small Cells
  2.2.1 Microcell
  2.2.2 Picocell
  2.2.3 Femtocell
  2.2.4 4G Public space femtocell
  2.2.5 Metro Cell
  2.2.6 eNode B
  2.2.7 4G Mini eNode B
  2.2.8 HetNet (Heterogeneous Network)

2.2.9 Licenced and Unlicenced Spectrum
2.3 From Homogeneous to Heterogeneous Networks
2.4 Usage of Small Cells
2.4.1 Residential
2.4.2 Enterprise
2.4.3 Metro and Public Space
2.4.4 Rural Applications
2.5 Growth Drivers for Small Cells Market
2.5.1 Addressing the Capacity Crunch
2.5.2 Mobility: A Key Growth Driver
2.5.3 Increasing Smartphone Penetration
2.5.4 Global Increase in Growth of Mobile Broadband
2.5.5 Mobile Broadband Moving Towards LTE Technology
2.5.6 Growing Data Usage over Mobile Broadband
2.5.7 The increasing importance of Social Media
2.5.8 Additional Uses of Mobile Broadband
2.5.9 Rise in Mobile Application Downloads
2.5.10 M2M Devices Rising
2.5.10.1 Business and consumer security and surveillance
2.5.10.2 Healthcare
2.5.10.3 Inventory and fleet management
2.5.10.4 Telematics
2.5.11 Connected Homes
2.5.12 Mobile Video
2.5.13 Need for In-Building Coverage
2.5.14 Enterprise Demands for In-building Coverage
2.5.15 Small Cells Demand Driven by Vendors
2.6 Underlying Trends in the Small Cells Market
2.6.1 Small Cells - Increasingly Dense Usage in Urban LTE
2.6.2 Femtocell Deployments in Public Spaces
2.6.2.1 4G Public Space Femtocell Complementing Macro Coverage
2.6.2.2 The Role of Femtocells in HetNets
2.6.3 The Role of Picocells in Indoor Coverage
2.6.4 Microcells Filling the Macro Gaps
2.6.5 The Novel Concept and Applications of Metrocells
2.6.6 How Are Metrocells Lowering LTE Network Costs?

3. THE GLOBAL SMALL CELLS MARKET FORECASTS 2013-2018

+44 20 8123 2220
info@marketpublishers.com

3.1 Significant Increase in Mobile Broadband Uptake Driving the Small Cells Market Forward
3.2 Significant Uptake of Small Cells from Operators Driving Shipments

4. THE GLOBAL SMALL CELLS SUBMARKET FORECASTS 2013-2018

4.1 What are the Leading Submarkets in the Global Small Cells Forecast 2013-2018?
4.1.1 Global Small Cells Submarket Forecast AGR & CAGR
4.1.2 Public Space Femto Cells the Leading Submarket with 33.6% of the Global Market Share In 2013
4.2 Global Small Cell Shipments Submarket Forecast 2013-2018
4.2.1 Global Small Cell Shipments Submarket Forecast AGR & CAGR
4.2.2 2G/3G Microcell the Leading Submarket with 45.7% of the Global Shipments Share In 2013

5. REGIONAL SMALL CELLS MARKET FORECASTS 2013-2018

5.1 Overview
5.2 Asia Pacific Leading the Regional Small Cells Market Forecasts by Significant Margin 2013-2018
5.2.1 Regional Small Cells Market Forecast AGR & CAGR
5.1.2 Asia Pacific Leading Regional Small Cells Market Share in 2013 with 34.7%
5.2 Regional Small Cell Shipments Forecast
5.2.1 Regional Small Cell Shipments Forecast AGR & CAGR
5.2.2 Regional Small Cell Shipments Share Forecast

6. SWOT ANALYSIS OF THE SMALL CELLS MARKET 2013-2018

7. EXPERT OPINION

7.1 Stoke - Mobile Broadband Gateway Solutions
7.1.1 Stoke Company Background & Affiliation to Small Cells
7.1.2 Key Trends in the Small Cells Market
7.1.3 Recent Developments in the Small Cells Market
7.1.4 Primary Drivers of the Small Cells Market
7.1.5 Primary Restraints of the Small Cells Market
7.1.6 Regional Growth in the Small Cells Market
7.1.7 Opportunities and Challenges in the Small Cells Market

+44 20 8123 2220
info@marketpublishers.com

8. LEADING COMPANIES IN THE SMALL CELLS ECOSYSTEM

8.1 Overview of Key Market Players and their Strategies
8.2 Ablaze Wireless
8.3 Acme Packet
8.4 Agilent Technologies
8.5 Airspan
8.6 Alcatel-Lucent
8.7 Altobridge
8.8 Aricent Group
8.9 AT&T
8.10 AWTG
8.11 Azcom Technology
8.12 Benetel
8.13 BLiNQ Networks
8.14 Blu Wireless Technologies
8.15 BluWan
8.16 BridgeWave Communications
8.17 Broadcom
8.18 Cambridge Broadband Networks
8.19 Cavium
8.20 C-COM
8.21 Cisco Systems
8.22 Comba
8.23 Contela
8.24 CS Corporation
8.25 DragonWave
8.26 EDX Wireless
8.27 Ericsson
8.28 Fastback Networks
8.29 Fujitsu
8.30 Hitachi
8.31 Huawei
8.32 iDirect
8.33 Infovista
8.34 InterDigital
8.35 Intracom Telecom
8.36 Ip.access
8.37 Ixia

8.38 Juni Global
8.39 MimoOn/Tektelic
8.40 Mindspeed Technologies
8.41 Nash Technologies
8.42 NEC
8.43 Nice
8.44 Nokia Siemens Networks
8.45 Option N.V.
8.46 PicoCELA
8.47 Public Wireless
8.48 PureWave
8.49 Qualcomm
8.50 Quortus
8.51 RadiSys
8.52 RADWIN
8.53 Rakon
8.54 Ranplan
8.55 Samsung
8.56 Siklu
8.57 SK Telesys
8.58 SoftBank
8.59 SpiderCloud Wireless
8.60 Stoke
8.61 SUB10 Systems
8.62 Tarana Wireless
8.63 Tatara Systems
8.64 TE Connectivity
8.65 Texas Instruments
8.66 Ubiquisys
8.67 u-blox
8.68 VECTRON International
8.69 Vodafone
8.70 ZTE
8.71 Additional Players in the Small Cells Ecosystem

9. TECHNICAL SPECIFICATIONS OF SMALL CELL TECHNOLOGIES

9.1 Technical considerations
9.1.1.1 Interference Management

9.1.1.2 Mobility Management
9.1.2 Backhaul
9.1.3 Closed vs. Hybrid vs. Open Access
9.1.4 Self-Organising Networks
9.1.5 Other Solutions
9.1.5.1 Cloud RAN (Radio Access Network)
9.1.5.1.1 Role of the Radio Access Network
9.1.5.2 Composition of the Radio Access Network
9.1.5.3 Distributes Antenna Systems (DAS)
9.2 Comparing Small Cells Approach to Hetnets
9.2.1 Microcells versus Wi-Fi Performance
9.2.2 Mobility
9.2.3 Quality of Service
9.2.4 Security
9.2.5 Self Organising Network (SON)
9.2.5.1 The Advent and Importance of Self-Organising Networks
9.3 Design of Hetnets
9.3.1 Deployment Aspects and Choice of Radio Access Technology
9.3.2 Small Cells in 3G Networks
9.3.3 Small Cells in 4G Networks
9.3.3.1 Base Stations and LTE Network Architecture
9.3.3.2 Differentiating between LTE FDD and TD-LTE
9.3.4 Type of Low Power Node and Backhaul Solution
9.3.5 Equipments Serving the Hetnets Architecture
9.3.6 Hetnet Architecture Layers and Radio Access Equipment Sectors
9.3.7 Technology for Cell Site Backhaul

10. CONCLUSION

10.1 Rising Traffic Volumes and Increasing Demand for Ever Present Mobile Broadband Coverage
10.2 Vendors Build a Strong Case for Small Cell Architectures
10.2.1 Small Cells and LTE
10.2.2 Integrated Antenna Systems Favouring Growth of Small Cells
10.2.3 Small Cell Deployment Challenges and SONs
10.3 Wi-Fi Offloading and its Challenges
10.4 Operator Benefits from Small Cells: Increased Revenue, Reduced Cost
10.5 Visiongain Predicts Consistently High Growth Rates in the Small Cells Market Fuelled By Upgrades in Mobile Broadband Technology

+44 20 8123 2220
info@marketpublishers.com

10.6 Conclusions
10.7 Points Emerged from this Research
10.8 Global Small Cells Market Forecast 2013-2018
10.9 Global Small Cell Shipments Forecast 2013-2018
10.10 Global Small Cells Submarket Forecast 2013-2018
10.11 Global Small Cell Shipments Submarket Forecast by Type 2013-2018
10.12 Regional Small Cells Market Forecast 2013-2018
10.13 Regional Small Cell Shipments Forecast 2013-2018

11. GLOSSARY

+44 20 8123 2220
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 2.1 Difference between Femtocells and Picocells
Table 3.1 Global Small Cells Market Forecast 2012-2017 ($ million, AGR %)
Table 3.2 Global Small Cells Market Forecast CAGR (%), 2012-2017, 2012-2014, and 2014-2017
Table 3.3 Global Small Cells Market Forecast by Type 2012-2017 ($ million)
Table 3.4 Global Small Cells Market Forecast by Type 2013-2017 (AGR %)
Table 3.5 Global Small Cells Market Forecast CAGR (%) by Type 2012-2017, 2012-2014, and 2014-2017
Table 3.6 Global Small Cells Market Share Forecast by Type 2012-2017 (%)
Table 3.7 Global Small Cell Shipments Forecast 2012-2017 (millions, AGR %)
Table 3.8 Global Small Cell Shipments Forecast CAGR (%), 2012-2017, 2012-2014, and 2014-2017
Table 3.9 Global Small Cell Shipments Forecast by Type 2012-2017 (millions)
Table 3.10 Global Small Cell Shipments Forecast by Type 2013-2017 (AGR %)
Table 3.11 Global Small Cell Shipments Forecast CAGR (%) by Type 2012-2017, 2012-2014, and 2014-2017
Table 3.12 Global Small Cell Shipments Share Forecast by Type 2012-2017 (%)
Table 4.1 Regional Small Cells Market Forecast 2012-2017 ($ million)
Table 4.2 Regional Small Cells Market Forecast 2013-2017 (AGR %)
Table 4.3 Regional Small Cells Market Forecast CAGR (%) 2012-2017, 2012-2014, and 2014-2017
Table 4.4 Regional Small Cells Market Share Forecast 2012-2017 (%)
Table 4.5 Regional Small Cell Shipments Forecast 2012-2017 (millions)
Table 4.6 Regional Small Cell Shipments Forecast 2013-2017 (AGR %)
Table 4.7 Regional Small Cell Shipments Forecast CAGR (%) 2012-2017, 2012-2014, and 2014-2017
Table 4.8 Regional Small Cell Shipments Share Forecast 2012-2017 (%)
Table 4.9 Regional Mobile Operators Involved in the Deployment of Small Cell Technologies
Table 5.1 EDX Wireless Product Portfolio
Table 5.2 Key Players in Small Cells Value Chain
Table 7.1 SWOT Analysis of the Small Cells Market 2012-2017

+44 20 8123 2220
info@marketpublishers.com

About

Mobile Broadband Moving Towards LTE Technology

LTE has been termed by experts; as an all IP packet-based technology offering the highest level of efficiency of any standardized wireless technology. Hence making it an essential move for all the MNO's as the demand for mobile broadband increases globally and significant rise in data use.

Growing Data Usage over Mobile Broadband

The growth of mobile data usage is the primary driver for the small cells market, as it demonstrates how subscribers are willing to utilise mobile data connectivity provided by their operator. Mobile data usage has been growing as mobile phone users become more aware of their handset's capabilities as well as the services that are on offer to them.

Stoke – Mobile Broadband Gateway Solutions

The following interview was conducted in June 2013. Visiongain would like to thank Dave Williams, Chief Technology Officer at Stoke, for participation in this interview, and Mary McEvoy Carroll, at Sand Hill Communications for Stoke for arranging this interview.

Stoke Company Background & Affiliation to Small Cells

Visiongain: Please give us a little background about your company and your affiliation with small cell technologies.

Dave Williams: Stoke became the first member of the re-named Small Cell Forum in May, 2012. Stoke's solutions deliver the industry's broadest range of support for multiple types of access technologies, providing standards-based, cost-effective and high performance functionality including IPSec and aggregation at the Mobile Access Border (a critical boundary between the radio access network and the Evolved Packet Core.

Stoke is an early mover in integrating the key functionality requirements for small cells into a single network element. Stoke delivers multi-service security and het net

+44 20 8123 2220
info@marketpublishers.com

aggregation functionality at the optimal point – between the radio network and the evolved packet core - in mobile broadband networks. Stoke brings real world LTE deployment expertise to the Small Cell Forum, having been installed in one of the largest LTE networks in the world over the last 2 years.

+44 20 8123 2220
info@marketpublishers.com

I would like to order

Product name: Global Small Cells Market 2013-2018

Product link: https://marketpublishers.com/r/G027AA435DFEN.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

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G027AA435DFEN.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

Custumer 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