

# Outdoor Metropolitan Picocell Value to Approach \$7 Billion by 2015

In-Stat

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The time has come for the rise of outdoor metropolitan picocells. There are specific cellular coverage scenarios in urban areas that are not effectively covered by macrocells. Finding a small form factor to install on utility poles or lamp posts solves this coverage dilemma. New In-Stat ([www.in-stat.com](http://www.in-stat.com)) research forecasts the value of outdoor metropolitan picocells—in the quantity needed to provide sufficient services for an evolving 4G voice and data market—will jump to \$6.9 billion in 2015.

“The need for outdoor metropolitan picocell base stations is being driven by several factors. First, while the standard method of deploying macrocells (cell towers) has been a very cost-efficient way for wireless operators to deploy 2G and 3G networks quickly—providing large amounts of coverage quickly—the macrocell solution is not ideal for 4G deployments like WiMAX and LTE,” says Chris Kissel, Senior Analyst. “The problem has to do with limited spectrum and the need for high-capacity and blazing-fast data rates. Silicon providers like Cavium and Texas Instruments, both of which have made SoC solutions for macro base stations, are reworking their platforms to include chipsets for these devices. Picochip (acquired by Mindspeed) is scaling its platform upward to address this market, and Intel, which has had a limited presence in cellular infrastructure SoCs, introduced two product modules with Ubiquisys at Mobile World Congress.”

Recent research found the following:

- In 2015, the retail value of femtocells in Eastern Europe is estimated to reach \$265 million.
- Roughly 30.7 million WCDMA/HSPA residential femtocells will be shipped in 2015.
- Worldwide outdoor metropolitan picocell unit shipments will have a CAGR of 248% over the five-year forecast period.
- In 2011, the value of voice and data services hosted by small cell devices is \$3.2 billion globally.

This Market Alert is drawn from the In-Stat research, [Femtocells and Small Cells: Making the Most of Megahertz \[1\]](#) (#IN1104896GW), which provides a comprehensive review of which small cells serve best in a variety of coverage scenarios and includes five-year forecasts and analyses of shipment numbers,

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Published on Electronic Component News (<http://www.ecnmag.com>)

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installed base, and the value of equipment in small cells. Breakouts and profiles are provided:

- Forecasts by region, airlink, and mode
- Forecasts by device type: femtocell, enterprise femtocell, indoor picocell, outdoor metro picocell, and microcell
- Current small cell deployments categorized by region and small cell type
- A silicon BOM for Class1 femtocells for the years 2009-2015
- Profiles of the leading device manufacturers, chipset providers, and other ecosystem providers in small cells including AirHop Communications, Airspan, Airvana, AirWalk Communications, Alcatel-Lucent, BelAir Networks, Broadcom, Cavium, Cisco, Cognovo, CommScope, Contela, DesignArt, Ericsson, Freescale, Huawei, Intel, ip.access, Juni, Mindspeed, NEC, Nokia Siemens Networks, Picochip, Powerwave, Qualcomm, Taqua, Samsung, Texas Instruments, Ubiquisys, Wazco, and ZTE.

This research is part of In-Stat's LTE & Cellular Infrastructure service, which provides analysis and forecasts of the market for wireless broadband and communication infrastructure equipment and components, including backhaul; macro, micro, pico, and femtocell base stations, and associated semiconductors.

Related In-Stat research:

[Wi-Fi Hotspots: The Mobile Operator's 3G Offload Alternative](#) [2]

[LTE Infrastructure Rankings, by Vendor, by Mobile Operator or Service Provider, 2009-2015](#) [3]

[Cellular Contracts, Deployments, and Subscriptions, Q4'11 Results](#) [4]

[Distributed Antenna Systems Worldwide—DAS to Fill In Gaps](#) [5]

More Information on this Research

- **Title:** Femtocells and Small Cells: Making the Most of Megahertz
- **Service:** [LTE & Cellular Infrastructure](#) [6]
- **Product Number:** IN1104896GW
- **Publication Date:** December 2011
- **Number of Pages:** 107
- **Price:** \$4,995 USD
- [Abstract, Table of Contents, Figures & Tables](#) [7]
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