

# The Small Cells, WiFi, DAS, Cloud RAN & HetNet Datasheet: 2014 - 2020

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## Abstracts

Part of the “HetNet Bible: 2013 – 2020”, this datasheet provides in-depth revenue forecasts on the small cells, carrier WiFi, Distributed Antenna Systems (DAS), cloud Radio Access Networks (RAN) and small cell backhaul.

**Market forecasts and historical revenue figures from 2010 till 2020 are provided for each of the following categories:**

Small Cells

Carrier WiFi

Small Cell Backhaul

Small Cells as a Service (SCaaS)

Distributed Antenna Systems (DAS)

Cloud RAN

Self-Organizing Network (SON) Solutions

Mobile Network Data Service

Small cell forecasts (unit shipments, revenue, installed base) are categorized in the following categories:

RAN Technology

GSM/W-CDMA/HSPA

CDMA-2000/EV-DO

LTE FDD

TD-LTE

WiMAX

Deployment Model

Home/Residential

Enterprise

Metro

Rural

Cell Size

Femtocells

Picocells

Microcells

Carrier WiFi forecasts (unit shipments, revenue, installed base) are categorized in the following categories:

Equipment Category

Access Points

Access Point Controllers

## Integration Approach

Managed WiFi Offload

Unmanaged 'Open Access' WiFi

Small cell backhaul forecasts (revenue) are categorized in the following technology categories:

Ethernet over Copper

Ethernet over Fiber

DSL modems and DSLAMs

Non Line of Sight (NLOS) Microwave (Sub-6GHz spectrum)

Point to Point (PTP) Microwave (6-60GHz)

Point to Multipoint (PTMP) Microwave (6-60GHz)

Millimeter Wave (Unlicensed 60GHz spectrum)

Millimeter Wave (Licensed 60GHz spectrum)

Satellite

Mobile network data service forecasts (throughput and revenue) are categorized in the following access network technology categories:

Macrocell Network

Small Cells

Carrier WiFi

DAS

Regional forecasts are categorized in the following 6 categories

North America

Asia Pacific

Western Europe

Eastern Europe

Middle East & Africa

Latin & Central America

## Contents

**SMALL CELLS**

**CARRIER WIFI**

**SMALL CELL BACKHAUL**

**SMALL CELLS AS A SERVICE (SCAAS)**

**DISTRIBUTED ANTENNA SYSTEMS (DAS)**

**CLOUD RAN**

**SELF-ORGANIZING NETWORK (SON) SOLUTIONS**

**MOBILE NETWORK DATA SERVICE**

**SMALL CELL FORECASTS (UNIT SHIPMENTS, REVENUE, INSTALLED BASE)  
ARE CATEGORIZED IN THE FOLLOWING CATEGORIES:**

RAN Technology

GSM/W-CDMA/HSPA

CDMA-2000/EV-DO

LTE FDD

TD-LTE

WiMAX

Deployment Model

Home/Residential

Enterprise

Metro

Rural

Cell Size

Femtocells

Picocells

Microcells

**CARRIER WIFI FORECASTS (UNIT SHIPMENTS, REVENUE, INSTALLED BASE)**

**ARE CATEGORIZED IN THE FOLLOWING CATEGORIES:**

Equipment Category  
Access Points  
Access Point Controllers  
Integration Approach  
Managed WiFi Offload  
Unmanaged 'Open Access' WiFi

**SMALL CELL BACKHAUL FORECASTS (REVENUE) ARE CATEGORIZED IN THE FOLLOWING TECHNOLOGY CATEGORIES:**

Ethernet over Copper  
Ethernet over Fiber  
DSL modems and DSLAMs  
Non Line of Sight (NLOS) Microwave (Sub-6GHz spectrum)  
Point to Point (PTP) Microwave (6-60GHz)  
Point to Multipoint (PTMP) Microwave (6-60GHz)  
Millimeter Wave (Unlicensed 60GHz spectrum)  
Millimeter Wave (Licensed 60GHz spectrum)  
Satellite

**MOBILE NETWORK DATA SERVICE FORECASTS (THROUGHPUT AND REVENUE) ARE CATEGORIZED IN THE FOLLOWING ACCESS NETWORK TECHNOLOGY CATEGORIES:**

Macrocell Network  
Small Cells  
Carrier WiFi  
DAS

**REGIONAL FORECASTS ARE CATEGORIZED IN THE FOLLOWING 6 CATEGORIES**

North America  
Asia Pacific  
Western Europe  
Eastern Europe  
Middle East & Africa

Latin &amp; Central America

**COMPANIES MENTIONED**

3GPP, 4IPNET, 6WIND S.A., ABLAZE, ACCEL PARTNERS, ACCURIS NETWORKS, ACER, ACME PACKET, ACTIX, ADARA VENTURE PARTNERS, ADLINK TECHNOLOGY, ADVANCED RF TECHNOLOGIES, ADVANCED WIRELESS TECHNOLOGY GROUP (AWTG), AEPONA, AGILENT TECHNOLOGIES, AICENT, AIRCOM INTERNATIONAL, AIRHOP COMMUNICATIONS, AIRSPAN, AIRVANA, AJ TELECOM GROUP, ALBTELECOM, ALCATEL-LUCENT, ALPHA NETWORKS, ALTERA, ALTOBRIDGE, ALVARION, ALWAYSON, AMADEUS CAPITAL PARTNERS, AMDOCS, AMERICAN TOWER CORPORATION, ANDREW CORPORATION, ANIXTER, ANRITSU, ANVAYA NETWORKS, ANZIVA TECHNOLOGIES, AOPTIX, APPLIED COMMUNICATION SCIENCES, APTILO NETWORKS, ARGELA, ARIA, ARICENT, ARIESO, ARITEL, ARQIVA, ARUBA NETWORKS, ASAH KASEI MICRODEVICES, ASKEY COMPUTER CORPORATION, ASOCS LTD, ASSOCIATION OF RADIO INDUSTRIES AND BUSINESSES (ARIB) – JAPAN, ASTELLIA, ASUS, AT&T, AT&T MOBILITY, ATHENA WIRELESS COMMUNICATIONS, ATOMIC, AUGERE BANGLADESH, AUGUST CAPITAL, AVANTI, AVAYA, AVEA, AVIAT NETWORKS, AXELL WIRELESS, AXIS TEKNOLOGIES, BABILON-T, BANDWIDTHX, BATELCO, BEELINE, BELAIR NETWORKS, BELGACOM, BELGACOM INTERNATIONAL CARRIER SERVICES (BICS), BELL MOBILITY, BEST WESTERN, BHARTI AIRTEL, BIRDSTEP TECHNOLOGY ASA, BL COMPANIES, BLACK & VEATCH, BLACK BOX CORPORATION, BLINQ NETWORKS, BLUWAN, BOINGO WIRELESS, BOUYGUES TELECOM, BRIDGEWAVE COMMUNICATIONS, BROADBAND FORUM, BROADCOM, BROADHOP, BROADSOFT, BSG WIRELESS, BSKYB, BSNL, BT, BTI WIRELESS, BURCO, BYERS ENGINEERING COMPANY, CABLE & WIRELESS COMMUNICATIONS, CABLELABS, CABLEVISION, CAMBIUM NETWORKS, CAMBRIDGE BROADBAND NETWORKS (CBNL), CAROLINA WEST WIRELESS, CAVIUM, CCI SYSTEMS, CCS, CDMA DEVELOPMENT GROUP (CDG), CELCITE, CELL C SOUTH AFRICA, CELLCOM, CELLCOM ISRAEL LTD, CELLO, CELLULAR ASSET MANAGEMENT, CELLULAR ONE OF EAST CENTRAL ILLINOIS, CELLULAR SPECIALTIES INC. (NOW CSI SOLUTIONS GROUP OF GOODMAN NETWORKS), CELLVINE, CERAGON, CHARLES RIVER VENTURES, CHINA COMMUNICATIONS STANDARDS ASSOCIATION (CCSA) – CHINA, CHINA MOBILE, CHINA NETCOM, CHINA TELECOM (CHINA TELECOMMUNICATIONS CORPORATION), CHINA UNICOM (CHINA UNITED NETWORK COMMUNICATIONS GROUP COMPANY LIMITED), CHUNGHWA TELECOM, CINCINTACI BELL, CISCO, CLARO, CLEARSKY, CLEARWIRE, CLOUDBERRY MOBILE, CM CAPITAL, CNS,

COHERENT LOGIX, COLT TELECOM, COMBA TELECOM, COMCAST, COMMSCOPE, COMMUNICATIONS COMPONENTS, INC. (CCI), CONEXANT, CONNECTIVITY WIRELESS, CONTELA, CONTINUOUS COMPUTING, CORAL GROUP, CORNING, COSMOTE, COX COMMUNICATIONS, CRAIG WIRELESS, CROWN CASTLE, CS CORPORATION, CTIA, CUDDY & FEDER, LLP, DALI WIRELESS, DAPU TELECOM, DAS ADVISERS, DATANG MOBILE, DATANG TELECOM, DAVIS WRIGHT TREMAINE, LLP, DELTA PARTNERS, DELTANODE, DESIGNART NETWORKS, DEUTSCHE TELEKOM, DEVICESCAPE SOFTWARE, DISH NETWORK, D-LINK CORPORATION, DOCOMO INTERTOUCH (USA) INC., DRAGONWAVE, DRAKA — PRYSMIAN GROUP, DU, E-BAND COMMUNICATIONS, EDEN ROCK COMMUNICATIONS, EDGEWATER WIRELESS, EDX WIRELESS, EE (EVERYTHING EVERYWHERE), EIRCOM, ENTERPRISE PARTNERS, ERICSSON, ERICSSON-LG, ERRIGAL, ETHERTRONICS, ETISALAT, ETRI, EXFO, EXTENET SYSTEMS, EYE-FI, FAREASTONE, FASTBACK NETWORKS, FLASH WIRELESS, FON WIRELESS, FOUNDATION CAPITAL , FREE MOBILE, FREESCALE SEMICONDUCTOR, FRONT PORCH, FUJITSU, FUJITSU SIEMENS, FULLERTON ENGINEERING CONSULTANTS INC., GALTRONICS, GENBAND, GENERAL COMMUNICATION INC. (GCI), GLOBAL TELECOM HOLDING (FORMERLY ORASCOM), GLOBAL TOWER PARTNERS, GONET SYSTEMS, GOODMAN NETWORKS, GOOGLE, GORE (W. L. GORE & ASSOCIATES), GOS NETWORKS, GRANITE VENTURES, GREEN MOUNTAIN COMMUNICATIONS INC., GREEN PACKET, GSMA, HAY SYSTEMS LIMITED (HSL), HAYMAKER TECHNOLOGIES, HFR INC., HILTON, HITACHI, HITACHI CABLE NETWORKS, HITACHI COMMUNICATION TECHNOLOGIES AMERICA (HITACHI CTA), HONEYWELL, HP, HTC, HUAWEI, HUBER AND SUHNER (H+S), HUTCHISON GLOBAL COMMUNICATIONS, HYPOWER INC., IBWAVE, IDIRECT, IMMIX WIRELESS, INDEX VENTURES, INDOSAT, INFOVISTA , INNERWIRELESS, INOC, INPHASE WIRELESS, INSITE WIRELESS, LLC, INTEL CORPORATION, INTERCONTINENTAL HOTEL GROUP, INTERDIGITAL, INTRACOM TELECOM, INTUCELL SYSTEMS, IP.ACCESS, IPASS, ISCO INTERNATIONAL, ISOTROPE, IUSACELL, JAFCO VENTURES, JDSU, JERSEY TELECOM, JUNI GLOBAL, KDDI, KGP LOGISTICS, KINETO WIRELESS, KLEINER PERKINS CAUFIELD & BYERS, KOHLBERG KRAVIS ROBERTS & CO, KOREA TELECOM (KT), KPN, LANTIQ, LG ELECTRONICS, LG UPLUS, LIGHTPOINT COMMUNICATIONS, LLIAD GROUP, LORD & COMPANY TECHNOLOGIES, LSI, MADISON DEARBORN PARTNERS, MARRIOTT INTERNATIONAL, MATRIX PARTNERS, MAVERICK CORPORATION, MAXIM INTEGRATED, MAXIS (MALAYSIA), MEGAFON, MENTUM, MESAPLEXX, METROPCS, MICROLAB — A DIVISION OF WIRELESS TELECOM GROUP, MICROSOFT, MIKOM, MIMOON, MINDSPEED TECHNOLOGIES, MINIEUM



NETWORKS, MOBILE TELESYSTEMS OJSC (MTS), MOBILEACCESS, MOBILY, MOLDTELECOM, MOSAIC TELECOM, MOTOROLA MOBILITY, MOTOROLA SOLUTIONS, MOVILNET VENEZUELA, MOVISTAR, MTC, NASH TECHNOLOGIES, NEC, NETGEAR, NETGEM, NETIA POLAND, NETWORK NORWAY, NEWPATH NETWORKS, NEXIUS, NEXTG NETWORKS, NEXTGENTEL, NEXTIVITY, NEXTWAVE WIRELESS, NODE-H, NOKIA, NOKIA SIEMENS NETWORKS, NOMADIX, NOMOR RESEARCH, NORTEL, NSIGHT, NTT BROADBAND PLATFORM, NTT COMMUNICATIONS, NTT DOCOMO, NTT-ME, O2 (TELEFONICA UK LIMITED), OCTASIC, OI BRASIL, OMANTEL, OPEN MOBILE ALLIANCE (OMA), OPTICON, OPTIMUS PORTUGAL, OPTION N.V., OPTIWAY, OPTUS, OPUS CAPITAL, ORACLE, ORANGE (FRANCE TELECOM), ORANGE ISRAEL, ORANGE ROMANIA, PCCW, PENNINGTON LAW FIRM, PERCELLO, PHILLIPS LYTLE, LLP, PICOCHIP, PLETRONICS, PORTUGAL TELECOM, POWERWAVE TECHNOLOGIES, PSION, PT TELKOM, PTS, PUBLIC MOBILE, PUBLIC WIRELESS, PUREWAVE NETWORKS, QUADRIGA WORLDWIDE, QUALCOMM, QUALCOMM ATHEROS, QUALCOMM TECHNOLOGIES, QUCELL, QUORTUS, RADISYS, RADWIN, RAKON, RED.ES, RELIANCE TELECOM, REPUBLIC WIRELESS, RETIS, REVERB NETWORKS, RF CONNECT, RF WINDOW, RFS (RADIO FREQUENCY SYSTEMS), RIM, ROGERS WIRELESS, R-TRON, RUCKUS WIRELESS, SAGEMCOM, SAI TECHNOLOGY, SAMSUNG, SAMSUNG ELECTRONICS, SAMSUNG VENTURES EUROPE, SBA COMMUNICATIONS, SEQUOIA CAPITAL, SERCOM, SFR, SHARP, SHASTA VENTURES, SHAW COMMUNICATIONS, SHYAM TELECOM, SIEMENS, SIKLU, SINGTEL, SISTEL NETWORKS, SK TELECOM, SK TELESYS, SKYPE, SMALL CELL FORUM , SMART COMMUNICATIONS INC (PLTD PHILIPPINES), SMITH MICRO SOFTWARE, SOFTBANK, SOLID TECHNOLOGIES, SOUTHERN CROSS VENTURE PARTNERS, SPIDERCLOUD, SPRINT, STARHUB, STARWOOD, STC, STOKE, SUB10 SYSTEMS, SUNWAVE COMMUNICATIONS, SWISSCOM, SYM TECHNOLOGY, SYMMETRICOM, SYNIVERSE TECHNOLOGIES, SYSNET INTEGRATORS, TAIWAN MOBILE, TALLEY, TANGO NETWORKS, TAQUA, TARANA WIRELESS, TATA ELXSI, TATA TELESERVICES, TDC, TECHNOLOGY COMMITTEE (TTC) – JAPAN, TEKELEC, TEKTELIC COMMUNICATIONS, TELE2 SWEDEN, TELECOM ITALIA MOBILE (TIM), TELECOMMUNICATIONS ASSOCIATION (TTA) – KOREA, TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) – USA, TELEFONICA, TELEFONICA MOVILES, TELENOR, TELENOR GROUP, TELENOR SWEDEN, TELIASONERA, TELSTRA, TELUS MOBILITY, TEMPEST TELECOM, TESSCO, TEXAS CHRISTIAN UNIVERSITY, TEXAS INSTRUMENTS, THE CANADIAN PENSION PLAN INVESTMENT BOARD., THE CLOUD, THE FAMILY OFFICE, THREE UK, TIME WARNER CABLE, TMC, TRUE, T-MOBILE AUSTRIA, T-MOBILE UK, T-MOBILE USA, TOT THAILAND, TOWERSTREAM CORPORATION,

TRAC GLOBAL, TRANSIT WIRELESS, TURKCELL, TVM CAPITAL GMBH, TYCO ELECTRONICS CONNECTIVITY, U.S. CELLULAR, UBEE INTERACTIVE, UBEE-AIRWALK, UBIDYNE GMBH, U-BLOX, UNION WIRELESS, UNIVERSITY OF WESTERN ONTARIO (WESTERN UNIVERSITY CANADA), UNIWILL, VERIZON WIRELESS, VIMPELCOM (RUSSIA), VIRGIN MEDIA, VODAFONE, VODAFONE AUSTRALIA, VODAFONE CANADA, VODAFONE CZECH REPUBLIC, VODAFONE GERMANY, VODAFONE GREECE, VODAFONE HUNGARY, VODAFONE IRELAND, VODAFONE ITALY, VODAFONE NETHERLANDS, VODAFONE NEW ZEALAND, VODAFONE PORTUGAL, VODAFONE QATAR, VODAFONE ROMANIA, VODAFONE SPAIN, VODAFONE UK, VUBIQ, WATANIYA TELECOM, WEFI, WES-TEC, WESTELL TECHNOLOGIES, WI-EX, WIF ALLIANCE, WILSON ELECTRONICS, WIMAX FORUM, WINTEGRA, WIRELESS BROADBAND ALLIANCE , WIRELESS INFRASTRUCTURE ASSOCIATION (PCIA) , WISTRON NEWEB CORP (WNC), XILINX, YOTA (RUSSIA), ZAIN BAHRAIN, ZAIN KUWAIT, ZAIN SAUDI ARABIA (ZAIN KSA), ZINWAVE, ZON PORTUGAL, ZTE

## **COUNTIRES COVERED**

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Papua New Guinea, Paraguay, Peru, Philippines, Poland, Portugal, Puerto Rico, Qatar, Reunion, Romania, Russia, Rwanda, Samoa, Samoa (American), Sao Tome & Principe, Saudi Arabia, Senegal, Serbia, Seychelles, Sierra Leone, Singapore, Slovak Republic, Slovenia, Solomon Islands, Somalia, South Africa, Spain, Sri Lanka, St Kitts & Nevis, St Lucia, St Vincent & The Grenadines, Sudan, Suriname, Swaziland, Sweden, Switzerland, Syria, Tajikistan, Taiwan, Tanzania, Thailand, Togo, Tonga, Trinidad & Tobago, Tunisia, Turkey, Turkmenistan, Turks & Caicos Islands, UAE, Uganda, UK, Ukraine, Uruguay, US Virgin Islands, USA, Uzbekistan, Vanuatu, Venezuela, Vietnam, Yemen, Zambia, Zimbabwe

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