

Alcatel-Lucent Home Cell V2

1900/850 MHZ AND AWS VARIANTS FOR THE AMERICAN MARKET
RELEASE BCR 2.4.1

The Alcatel-Lucent 9361 Home Cell (HC) V2 is a low power, high capacity wireless device that cost-effectively extends Wideband Code Division Multiple Access (W-CDMA) and high-speed packet access (HSPA) coverage and capacity to the home, delivering fast, responsive data service, and crystal-clear voice. The end user simply connects the 9361 HC to power and broadband Internet service, and the 9361 HC automatically comes into service without any additional user intervention. The 9361 HC not only increases the uptake of 3G services, generating additional revenue from services mobile service providers (MSP) already offer, but also provides application programming interfaces (APIs) that enable MSPs to leverage unique network capabilities, such as location and presence, to develop new, innovative applications.



Product Overview

The Alcatel-Lucent 9361 HC uses a flat IP architecture and secured access through an existing broadband Internet connection to offload voice and data traffic from a macro network, and substantially reduce capital expenditures (CAPEX) and operating expenditures (OPEX). True plug-and-play capabilities and Bell Labs Self-Organizing/Self-Optimizing Network (SON) technology enable zero-touch configuration and self-optimization to deliver outstanding performance.

The Alcatel-Lucent 9361 HC is part of the carrier-grade, end-to-end Alcatel-Lucent 9360 Small Cells solution that easily integrates into any MSP's existing 3G network.

Features

- Extended coverage with a maximum transmit power of 100 mW (20mW hardware version is also available)
- Self optimizing capabilities:
 - ↪ 3G and 2G sniffers for neighbor-cells detection
 - ↪ Adaptive transmit power for coverage optimization
- Emergency calling and other location-associated services with accurate global positioning system (GPS)-based location information
- GPS-based location lock that prevents the 9361 HC from transmitting if it is not within a specific range of the provisioned location
- Secure, tamper-resistant casing
- Support for both shared secret and certificate-based authentication, as well as Universal Mobile Telecommunications System (UMTS) Subscriber Identity Module (USIM) authentication

- Seamless services and mobility with macro network
- Support for open, prioritized open, or closed access modes
- Application enablement with presence API, network local routing, and Internet traffic breakout

Benefits

- Extends W-CDMA coverage and high-speed downlink packet access (HSDPA)/high-speed uplink packet access (HSUPA) capacity to residences with a low total cost of ownership (TCO)
- Improves end user quality of experience (QoE) with a higher quality air interface that provides crystal clear voice, faster and more reliable data connections, and higher data throughput
- Enables end user self-installation with plug-and-play
- Eliminates special backhaul requirements by using an existing broadband Internet connection
- Enables the development of value-added, innovative services based on location, presence, quality of service (QoS), and trusted security
- Simplifies network management with a single integrated system that combines the strengths of the Alcatel-Lucent Wireless Management and Provisioning Systems and the Motive Home Device Manager — a leading solution for the management of TR-069 devices with over 40 million devices under active management

Technical Specifications

Dimensions (HxWxD)

- 162x195x50 mm
- 6.38x7.688x1.97 in

Weight (without power supply)

- < 350g
- < 0.88 lb

Mount

- Free standing or wall mountable
- Vertical orientation

Power

- Supply:
 - AC/DC adaptor – 110/240-V AC to 12-V DC
- Consumption:
 - Maximum: < 10 W

Interface

- Transmission:
 - 10/100Base T RJ45
- Local connection:
 - 10/100Base T RJ45

Certification

- UL
- FCC

Temperature Range

- -5°C to +45°C
- 23°F to 113°F

Safety

- UL60950
- UL1310

Electromagnetic Compatibility (EMC)

- 47CFR FCC Part 15 (Class B)
- OET-65

Radio Characteristics

- 1900 or 850 MHz variant:
 - Operating band: 1900 or 850 MHz, depending on configured frequency band
 - Listening bands:
 - 1900/850 MHz UMTS
 - 1900/850 MHz GSM
- AWS variant:
 - Operating band:
 - 1700 MHz
 - Listening bands:
 - 1900 and 1700 MHz UMTS
 - 1900 and 1700 MHz GSM
- Baseband capacity:
 - Four devices with each connection supporting a simultaneous voice call and data session
- Maximum bearers:
 - 14.4 Mb/s L1 HSDPA bearer
 - 5.7 Mb/s L1 HSUPA bearer
- Maximum transmission power:
 - 100 mW variant:
 - 100 mW output power
 - 20 mW variant:
 - 20mW output power
- Sensitivity:
 - -107 dBm