

Reference

Kings Plaza, Brooklyn NY



Conquering the RF Black Hole with Rapid & Cost-Effective Wireless Solutions

Comba's AWS Band-Adjustable Repeater and Antennas Creates a Ubiquitous LTE/WCDMA/CDMA In-Building Wireless Experience for Mall Visitors



About Kings Plaza

Kings Plaza Shopping Center is located in Brooklyn, New York and first opened in 1970.

A two story mall with over 150 stores and eateries, with approximately 4,200 workers the Kings Plaza is the largest shopping center within the borough of Brooklyn with well-known retail stores including Macys, Sears, BestBuy and H&M.



Comba's Off-Air Repeater

Comba's off-air repeater RD-2020 provides an excellent low cost solution for customers to enhance in-building wireless coverage for small and mid-size structures. Compatible with AWS bands, the RD-2020 also supports CDMA, WCDMA and LTE systems.

Coupled with a web-based OMT (operation & maintenance terminal), there is no software installation requirements for the RD-2020. Thus, typical commissioning takes less than 10 minutes.

Before Installation

Comba was contracted to deploy an enhancement solution Kings Plaza Shopping Center in Brooklyn, NY. One of the conditions was that the solution had to comply with the facility's requirement that equipment such as indoor antennas had to be recessed within the ceiling.

Measurements revealed that wireless signal amplitudes was below -110 dBm in most locations within the mall – effectively the wireless coverage within the mall was extremely poor to non-existent.



Comba's Repeater and Donor Antenna

After Installation

Comba designed and installed a system that included a donor antenna positioned outside of the premises and a combination of an off-air repeater and a series of in-building antennas to enable coverage.

The results were obvious. Wireless signal amplitudes significantly improved to average -80 to -90dBm.

This was merely the first step toward ubiquitous, high quality wireless coverage for voice and data, and Comba had helped the operator and building management to plug a huge hole in their RF network.

Comba Products & Services

- System Design
- [CDMA AWS Band Adjustable Repeater \(RD-2020\)](#)
- [Donor Antenna \(ODM-030V16K0\)](#)
- [Directional Indoor Antennas \(ODM-075V11N0\)](#)

For more information, contact your Comba representative, or visit <http://www.combausa.com>

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