

Florida Senior Living Community

Guardian3 QR public safety signal booster delivers connectivity and NFPA compliance for 160,000 sq. ft. newly constructed senior community.

THE CHALLENGE

The carefully planned senior living community was constructed with quality in mind. Its dense, floor-to-ceiling concrete wall structure delivered privacy and independence to its community but created cellular challenges for residents and staff.

Quality construction can often complicate cellular penetration and dispersion inside of buildings. Upon inspection the building's donor signal for the public safety band (800 MHz) was -60 dB, however, the average signal inside of the building was -110 dB. The Fire Inspector's report indicated this was an unusable cellular signal, and the facility at Boca Raton was in quick need of a solution.

THE SOLUTION

In order to open its doors and receive their certificate of occupancy for its eager new residents it was now needing to be NFPA compliant. They needed a cellular solution integrator who could identify and install a solution quickly—without sacrificing reliability or performance.

The cellular experts at Powernet researched their options and chose SureCall for its experience with complex in-building passive DAS designs and reliable, performance driven signal boosters. After a comprehensive review of the project, Powernet installed 4 Guardian3 QR public safety signal boosters with Yagi donor antennas, dome indoor antennas and LMR-600 coaxial cabling.

As building changes occurred between the time of SureCall's design and the deployment, Powernet used their expertise to respond with final, onsite adjustments to the design.

"Not only were we able to protect our margins but we were able to keep costs low for the customer as well. Since installing they have expressed their pleasure with the turnaround time, product and performance," explains Gerber.

After installing the SureCall system, the customer's previously very poor signal had improved significantly with average signal strength between -65 dB and -70 dB throughout the entire facility. Even better, it was able to pass the Fire Inspector's second inspection with 100-percent in-building coverage for the critical 800 MHz band.



THE CUSTOMER

A large senior living community in Boca Raton, Florida is exceeding expectations by creating a community that allows seniors to continue living the lifestyle they have grown to love. With their new 160,000-square-foot community in southeast Florida, the development is able to deliver top-tier services for assisted living and memory care.

"Working with SureCall exceeded our expectations. SureCall's design approach allows for smooth installation and integration into the network and they even went the extra mile to ease the process of working within Palm Beach County jurisdiction."

Greg Gerber,
Sr. Manager of Wireless Technologies at Powernet

ABOUT POWERNET

Powernet enables businesses to connect internally and externally through innovative telecommunications solutions. Combining more than 24 years of telecom experience with Wi-Fi, voice, data, IT manages services and carrier services, Powernet provides their partners and clients with the unparalleled service and innovative technology they need to achieve their business goals.

ABOUT SURECALL

SureCall is the multi-patented industry leader in cell phone signal boosters, combining high quality technology with innovative designs to create award-winning boosters that dramatically improve cell phone reception, including voice or 4G data, for homes, cars and businesses.

Guardian3 QR

Guardian3 QR Public Safety signal booster ensures crucial two-way radio connectivity for first responders with coverage in large and enterprise buildings.

- Boosts 700 MHz (FirstNet Ready), 800 MHz and 900 MHz SMR
- Meets Chapter 24 Emergency Communications System of NFPA 72
- NEMA 4 rated amplifier housing - No additional enclosure(s) needed
- 80 dB amplifier supports 100+ users per band
- Automatic gain control (AGC)
- Independently adjustable frequency attenuation
- Remote Monitoring with Built-in SureCall Sentry™ remote monitoring system and Ethernet connection
- UPS port for external battery backup
- Integrated 7-pin alarm



Guardian3 QR

SureCall's latest innovation, the Guardian3 QR, is a Bi-Directional Amplifier that services the full Public Safety 700 MHz and 800 MHz bands as well as the 900 MHz SMR (Specialized Mobile Radio Service) band. The Guardian3 QR meets Chapter 24 of NFPA 72 standards, improving weak First Responder signals for critical and non-critical areas within the building.

PRODUCT SPECIFICATIONS

Product	Guardian3 QR
Uplink Frequency Range:	788-805 / 806-824 / 896-901 (Including D Block)
Downlink Frequency Range:	758-775 / 851-869 / 935-940 (Including D Block)
Supported Standards:	Public Safety 700 and 800 and SMR 900
Maximum Gain:	80 dB
Gain Adjustment:	31 dB
Cable:	SC-400 (not included)
RF Connectors:	N Female (both ends)
Power Consumption:	50W
Dimensions:	21.5 x 17 x 6 inches
Weight:	49.6 lbs
FCC (USA):	RSNFORCE3-PSB

Specifications are subject to change. Specifications contained within apply only to products meeting the latest FCC Certification Guidelines of 2/20/2013.