



BI-DIRECTIONAL AMPLIFIER (BDA) SOLUTIONS

Reliable Two-Way Emergency
Radio Communication
Enhancement

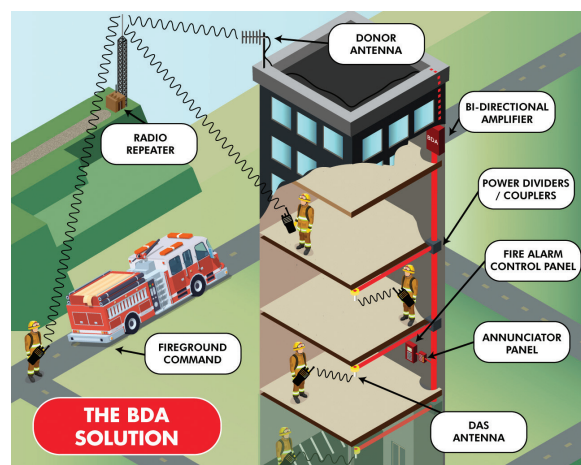
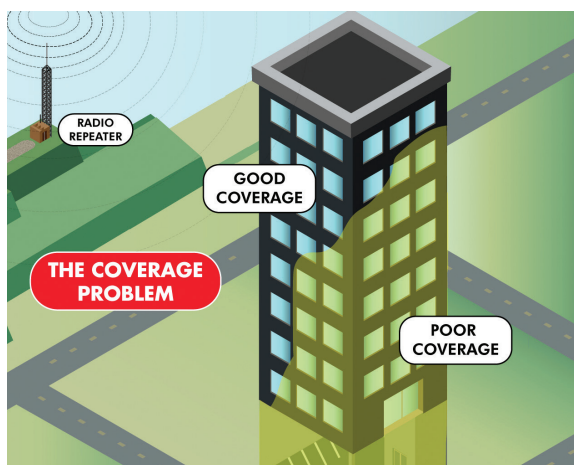
During an emergency, reliable communication is critical. Staying informed with clear radio transmissions for first responders can help prevent injuries and save more lives.

WHAT IS A BDA SYSTEM?

Emergency Responders lose communications when in-building radio signals are weakened by structures such as concrete, windows and metal. The Bi-Directional Amplifier (BDA) System, also known in some markets as DAS-Distributed Antenna System, is a signal-boosting solution designed to enhance in-building radio frequency (RF) signal coverage for public safety radios.

Bi-Directional Amplifiers (BDAs) are signal boosters that sustain two-way radio communications throughout a facility—including in stairwells, underground tunnels, parking garages, and other challenging areas. The BDA System locates a wireless signal, amplifies it, and then rebroadcasts it throughout your building.

Collectively, BDA/DAS equipment is often referred to as wireless In-Building Solutions. These two-way radio signal boosters are used to bring facilities into compliance with both local code and Emergency Responder Radio Coverage (ERRC) code.



WHO NEEDS BDA SYSTEMS?



Examples include:

Airport Terminals

Apartment Buildings

Assisted Living Facilities

Commercial Buildings

Convention Centers

Governmental Buildings

Hospitals

Hotels

Manufacturing Plants

Parking Garages

Retail Shopping Malls

Schools and Campuses

Shipping Ports

Stadiums and Arenas

In the state of Florida, almost every building needs to start thinking about filing for or installing a BDA system. This includes:

- Any building that is identified and inspected under local ordinances and/or is requiring public safety permits.
- Many facilities now require BDA installation with new or building renovation permits and certifications.
- Anyplace where first responders, maintenance, and security personnel need to maintain constant two-way communications.

Florida Statute 633.202 has laid out the following deadlines for buildings to remain in compliance:

- New Construction: By December 31, 2019, new construction buildings must meet the requirements for the fire department for radio communications
- Existing Commercial buildings: By December 31, 2019, buildings that are not in compliance with the requirements for minimum radio strength for fire department communications must apply for an appropriate permit for the required installation with the local government agency having jurisdiction and must demonstrate that the building will become compliant by January 1, 2022.
- Existing Apartment buildings: By December 31, 2022, existing apartment buildings are required to apply for the appropriate permit for the required communications installation. Existing apartment buildings must be in compliance with radio strength by January 1, 2025.



AFA'S BDA SERVICES

AFA Protective Systems provides a variety of bi-directional amplifier and distributed antenna systems. Nearly every BDA solution is custom-designed for each unique environment. Variables such as building materials, dead spots, and signal interference offer specific challenges and AFA has extensive experience deploying in-building wireless systems to meet nearly any operating conditions.

AFA offers you a BDA installation solution that includes:

INITIAL SURVEY

Our certified team will assess your specific buildings needs with an on-site evaluation. Each structure is unique, therefore the system design must be as well.

CODE COMPLIANT CONSULTATION

AFA is familiar with all relevant code regarding BDA systems. AFA will make sure your building complies with government mandates and stays code compliant.

EXPERT INSTALLATION

AFA provides design services on BDA equipment and installation. Our experienced drafters and installers will make sure your project moves along on time and on budget.

TEST AND INSPECTION SERVICES

Being a full-service organization, our work does not end after design and installation. We offer maintenance and Test & Inspection services to maintain a functioning BDA system so our clients and emergency personnel can have the peace of mind that, should an emergency happen, communication would go uninterrupted.

Installing BDAs is not only beneficial for first responders in emergency situations, they can improve productivity and safety for work teams such as maintenance, engineering, operations, and security. To explore the right BDA/DAS systems to get your facility compliant and fully operational, please contact us today for your FREE consultation.

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