



REX ELECTRIC AND TECHNOLOGIES

# Distributed Antenna System

STAYING CONNECTED FOR YOUR BUSINESS

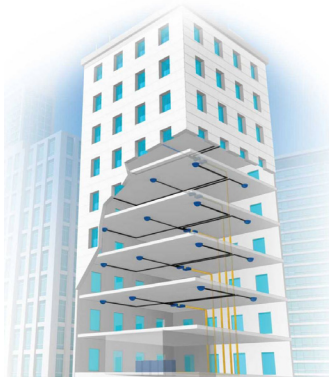


REX installs, tests, commissions and maintains Distributed Antenna System (DAS) networks to improve signal strength and network capacity. REX specializes in indoor and outdoor DAS solutions for the private and public sector and has industry leading proficiency across a variety of venues including:

- Stadiums, convention centers and theme parks
- Colleges and universities
- Hotels, Resorts and convention centers
- Hospitals and medical centers
- Densely populated urban areas

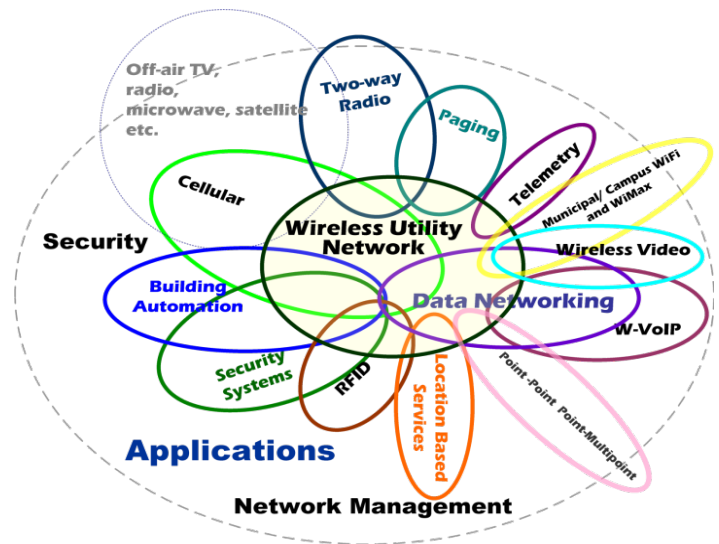
## What is DAS?

The Distributed Antenna System (DAS) is a network of spatially separated antenna nodes connected to a common source via transport medium that provides wireless service within a geographic area or structure.



A Distributed Antenna System can be designed for use indoors or outdoors and can be used to provide wireless coverage to hotels, subways, airports, hospitals, businesses, roadway tunnels etc. The wireless services typically provided by a DAS include PCS, cellular, Wi-Fi, police, fire, and emergency services.

## Functions that rely on DAS:



By any measure today, the ability to communicate wirelessly anywhere, anytime, at full speed and without interruption is not a luxury or even an amenity, it is a utility. In commercial buildings tenant acquisitions and retention can, to a certain extent, depend on the presence and quality of cellular and WI-FI services. DAS is seamless and invisible for customers, but the results are easy to see.

REX blends telecommunications experience with skills in areas such as project management, cabling infrastructure validation, troubleshooting, and optimization to fully implement a DAS system.

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## INDUSTRY SOLUTIONS

More than ever, executives, clients, patients, and students rely on cellular services to work indoors, as well as they've come to expect outdoors. From conducting business more efficiently, to enhancing a patient's experience or improving customer responsiveness, cellular services need to work everywhere, making the business case for enterprise mobility stronger than ever.

- Increase Productivity – Greater mobility inside facilities translates to work getting done anywhere
- Differentiation – Create a compelling reason for customers to use a company's services
- Generate Revenues – Wireless is an amenity generating direct and indirect revenues to building assets.
- Operational Efficiency – Reduce customer response times, and optimize data entry, access, and control to improve efficiency
- Enhance Patient Care - Patient monitoring for busy caregivers is simplified with reliable wireless support
- Improve Safety – Dependable first responder communications in stadiums, arenas, and airports can improve safety measures.

For an indoor DAS network, remote antennas are strategically placed throughout a building and are connected with fiber optic cable to a single hub containing all of the wireless service provider's equipment.

An outdoor DAS network consists of a central hub location which links a system of strategically placed antenna locations to provide carriers with pinpoint coverage not provided by traditional coverage methods. In addition, antennas can be placed on street lights or utility poles or cleverly camouflaged when there is a need to preserve neighborhood aesthetics.

## REX Solutions

The DAS can support any combination of the following services:

- 2G (GSM, DCS, PCS)
- 3G (UMTS)
- 4G
- LTE
- Public Safety
- Wi-Fi

## Buildings REX has implemented DAS:



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