

U.S. Indoor Distributed Antenna System (DAS) Market - A Country Analysis: Focus on Application, Product, and Country-Level Analysis - Analysis and Forecast, 2024-2034

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Abstracts

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This report will be delivered in 7-10 working days. **U.S. Indoor Distributed Antenna System (DAS) Market Overview**

The U.S. indoor distributed antenna system (DAS) market was valued at \$1,284.2 million in 2023 and is projected to grow at a CAGR of 9.11%, reaching \$3,327.1 million by 2034. The market thrives due to increasing demand for seamless indoor connectivity, driven by urbanization and smart building trends. Technological advancements in DAS and the expansion of 5G infrastructure are key growth factors. Strategic partnerships, regulatory support, and innovations in scalable solutions shape this dynamic market, which focuses on ensuring robust wireless coverage in diverse indoor environments.

Introduction of DAS

The study conducted by BIS Research defines distributed antenna system (DAS) as a network of spatially separated antennas connected to a common source to provide wireless service within a building or area. It enhances signal strength and coverage in locations where traditional outdoor antennas, such as high-rise buildings, stadiums, airports, and underground facilities, may struggle to penetrate. DAS solutions are crucial for delivering consistent wireless connectivity, especially in densely populated urban environments, and are integral to deploying 5G and other advanced wireless technologies.

Market Introduction

The increasing demand for reliable indoor wireless connectivity across various sectors, including commercial buildings, stadiums, hospitals, and airports, drives the U.S. indoor distributed antenna system (DAS) market. With the rapid expansion of 5G networks and the rise of smart buildings, DAS solutions are essential for ensuring consistent coverage in areas where outdoor signals struggle to penetrate. The market is characterized by technological advancements, strategic partnerships, and significant investments in infrastructure, positioning DAS as a critical component of modern wireless communication.

Industrial Impact

The U.S. indoor distributed antenna system (DAS) market has a significant industrial impact by enabling enhanced wireless connectivity across critical sectors such as healthcare, education, transportation, and commercial real estate. As industries increasingly rely on advanced communication technologies, including 5G, DAS ensures consistent signal coverage, improving operational efficiency, safety, and customer experiences. Additionally, integrating DAS in smart buildings and industrial complexes supports the adoption of IoT and automation, making it a key enabler for modern, tech-driven industries and contributing to overall economic growth.

Market Segmentation:

Segmentation 1: by Application

Commercial Buildings

Hospitality

Government

Healthcare

Educational Institutes

Manufacturing and Warehouse

Transportation

Sport Venues

Residential

Commercial Buildings Application Segment to Dominate the U.S. Indoor Distributed Antenna System (DAS) Market (by Application)

Commercial buildings are poised to lead the U.S. indoor distributed antenna system (DAS) market due to their substantial mobile data traffic and high user density. These buildings, including offices and shopping complexes, require robust indoor coverage to support seamless communication and connectivity for tenants and visitors. As 5G networks expand, the demand for efficient DAS solutions in commercial settings will surge. This trend is driven by the need to meet growing data demands and ensure reliable network performance amidst increasing digitalization and connectivity requirements within these bustling environments. Consequently, commercial buildings are anticipated to maintain a dominant position in adopting indoor DAS technologies, leveraging them to enhance operational efficiency and user satisfaction across diverse business and retail spaces.

Segmentation 2: by Business Model

Carrier

Enterprise

Neutral Host

Carrier to Dominate the U.S. Indoor Distributed Antenna System (DAS) Market (by Business Model)

The carrier business model is poised to dominate the U.S. indoor distributed antenna system (DAS) market by strategically partnering with mobile network operators (MNOs). This model involves designing, installing, and maintaining telecommunications infrastructure to enhance carriers' network coverage and capacity without direct capital investment. It operates through revenue-sharing or fixed fee arrangements, where DAS

providers absorb significant capital and operational costs. This partnership allows carriers to expand service reach in challenging environments, such as densely populated areas, leveraging established infrastructure. However, adherence to stringent regulatory standards and ongoing network management is required to meet evolving technological and regulatory demands. Overall, the carrier model facilitates broader service delivery for MNOs while ensuring stable, long-term revenue streams for DAS providers through structured service agreements.

Segmentation 3: by Signal Source

Off-Air Antennas

Base Transceiver Stations

Smart Cells

Base Transceiver Stations to Dominate U.S. Indoor Distributed Antenna System (DAS) Market (by Signal Source)

Base transceiver stations are positioned to lead among signal sources in the U.S. indoor distributed antenna system (DAS) market due to their ability to meet high capacity and extensive coverage requirements within indoor environments. These stations are pivotal in providing robust wireless connectivity in venues with significant user density, such as stadiums, airports, and large office complexes. As the demand for seamless and reliable indoor wireless communication intensifies, especially with the integration of advanced technologies such as 5G, base transceiver stations are anticipated to drive substantial revenues in the indoor DAS sector. Their effectiveness in handling large data volumes and supporting multiple users simultaneously underscores their critical role in enhancing user experience and operational efficiency across diverse indoor settings.

Segmentation 4: by Solution Type

Hardware

Antenna Node/Radio Node

Door Antenna

Bidirectional Amplifiers

Radio Units

Head-End Units

Others

Services

Installation Services

Pre-Sales Services

Post-Installation Services

Recent Developments in the U.S. Indoor Distributed Antenna System (DAS) Market

In February 2024, Corning Incorporated launched the Everon cellular solution, engineered to provide strong and dependable cellular coverage in densely populated indoor spaces. This indoor DAS solution emphasizes ease of deployment and scalability, making it a perfect fit for locations such as stadiums, airports, and office complexes. It is designed to support multiple carriers and technologies, ensuring smooth connectivity for various devices and networks, including 4G and 5G.

Airspan Networks Inc. conducted a local 5G Open RAN trial in Japan in partnership with Cisco, JTOWER, and MKI. The trial integrated Cisco's Private 5G, JTOWER's optical relay DAS, Airspan Networks Inc.'s Open RAN 5G hardware, and MKI's construction expertise. This collaborative effort boosts network efficiency in large buildings and underground areas, promoting sustainable network management by lowering CO2 emissions and energy consumption and reducing costs for enterprises and local governments.

In September 2021, Advanced RF Technologies, Inc. (ADRF) introduced the ADXV distributed antenna system (DAS). This system is designed to enhance cellular coverage in indoor environments, supporting multiple frequency bands

and offering scalability for future upgrades. Additionally, the company launched SDR-ICS Outdoor, which is aimed at improving outdoor cellular connectivity with high performance in challenging conditions.

Demand - Drivers, Limitations, and Opportunities

Market Driver: Rising Digitalization in the Healthcare Sector

The rising digitalization in the U.S. healthcare sector is driving growth in the U.S. indoor distributed antenna system (DAS) market, as hospitals and healthcare facilities increasingly rely on robust and reliable wireless communication networks. The demand for seamless connectivity is critical for supporting telemedicine, digital patient records, remote monitoring devices, and other healthcare IoT applications that require uninterrupted data transmission. With the growing use of digital tools and real-time data in patient care, healthcare facilities need advanced in-building wireless infrastructure to ensure continuous coverage. DAS systems are becoming essential for delivering high-quality indoor coverage, especially in large medical facilities where reliable communication is vital for both staff coordination and patient safety. As digital health technologies continue to expand, the U.S. indoor distributed antenna system (DAS) market is poised for significant growth in response to the healthcare sector's increasing connectivity needs.

Market Challenge: Backhaul Routing Challenges in DAS Networks

Backhaul routing presents a significant challenge in U.S. indoor distributed antenna system (DAS) networks. Efficient backhaul is essential for carrying data traffic from DAS nodes to the core network, but the complexity of indoor environments often leads to routing difficulties. High-rise buildings, dense materials, and architectural designs can obstruct signal pathways, complicating the installation and performance of backhaul infrastructure.

Moreover, as DAS networks increasingly support higher frequencies, such as 5G, the demand for low-latency and high-capacity backhaul solutions intensifies. Coordinating backhaul for multiple carriers and technologies adds further complexity, often requiring specialized equipment and precise planning. Network operators must carefully manage backhaul traffic to avoid bottlenecks that could degrade performance.

Market Opportunity: Expansion of 5G Infrastructure

The expansion of 5G infrastructure presents a significant opportunity for the U.S. indoor distributed antenna system (DAS) market. As telecom companies accelerate 5G rollouts, the demand for enhanced indoor connectivity will rise, especially in densely populated areas and large indoor spaces where signal penetration can be challenging. Indoor DAS solutions will play a critical role in ensuring the high-speed, low-latency performance that 5G promises, making them integral to successful 5G deployments.

5G's advanced capabilities, such as supporting more connected devices and delivering faster data speeds, require robust indoor network infrastructure. DAS can help bridge coverage gaps within buildings, ensuring that 5G services are accessible and reliable, even in high-rise structures, stadiums, airports, and shopping malls. As businesses and consumers increasingly rely on 5G-enabled services, the demand for effective indoor solutions such as DAS will continue to grow.

How can this Report add value to an Organization?

Product/Innovation Strategy: The product and innovation strategy for the U.S. indoor distributed antenna system (DAS) market focuses on developing scalable and flexible solutions that support emerging technologies such as 5G and IoT. Key areas include enhancing signal strength, coverage, and reliability in diverse indoor environments such as commercial buildings, stadiums, and hospitals. Companies are investing in R&D to create energy-efficient and cost-effective DAS solutions, leveraging modular designs for easy upgrades. Strategic partnerships with telecom providers and infrastructure companies further drive innovation and deployment, ensuring future-proof connectivity solutions across various industries.

Growth/Marketing Strategy: The U.S. indoor distributed antenna system (DAS) market has been increasing. The market offers enormous opportunities for existing and emerging market players. Some strategies covered in this segment are mergers and acquisitions, product launches, partnerships and collaborations, business expansions, and investments. Companies' strategies to maintain and strengthen their market position primarily include product development.

Competitive Strategy: The key players in the U.S. indoor distributed antenna system (DAS) market analyzed and profiled in the study include indoor DAS providers. Additionally, a comprehensive competitive landscape such as partnerships, agreements, and collaborations are expected to aid the reader in understanding the untapped revenue pockets in the market.

Research Methodology

Factors for Data Prediction and Modelling

The base currency considered for the market analysis is US\$. Currencies other than the US\$ have been converted to the US\$ for all statistical calculations, considering the average conversion rate for that particular year.

The currency conversion rate has been taken from the historical exchange rate of the Oanda website.

Nearly all the recent developments from January 2021 to July 2024 have been considered in this research study.

The information rendered in the report results from in-depth primary interviews, surveys, and secondary analysis.

Where relevant information was not available, proxy indicators and extrapolation were employed.

Any future economic downturn has not been considered for the market estimation and forecast.

Technologies currently used are expected to persist through the forecast with no major technological breakthroughs.

Market Estimation and Forecast

This research study uses extensive secondary sources, such as certified publications, articles from recognized authors, white papers, company annual reports, directories, and major databases, to collect useful and effective information for an extensive, technical, market-oriented, and commercial study of the U.S. indoor distributed antenna system (DAS) market.

The market engineering process involves calculating market statistics, market size estimation, market forecast, market crackdown, and data triangulation (the methodology for such quantitative data processes is explained in further sections). The primary

research study has been undertaken to gather information and validate the market numbers for segmentation types and industry trends of the key players in the market.

Primary Research

The primary sources involve industry experts from the U.S. indoor distributed antenna system (DAS) market and various stakeholders in the ecosystem. Respondents such as CEOs, vice presidents, marketing directors, and technology and innovation directors have been interviewed to obtain and verify both qualitative and quantitative aspects of this research study.

The key data points taken from primary sources include:

- validation and triangulation of all the numbers and graphs
- validation of reports segmentation and key qualitative findings
- understanding the competitive landscape
- validation of the numbers of various markets for market type
- percentage split of individual markets for geographical analysis

Secondary Research

This research study uses extensive secondary research, directories, company websites, and annual reports. It also uses databases, such as Hoovers, Bloomberg, Businessweek, and Factiva, to collect useful and effective information for an extensive, technical, market-oriented, and commercial study of the U.S. market. In addition to the data sources, the study has been undertaken with the help of other data sources and websites, such as the Census Bureau, OICA, and ACEA.

Secondary research was done to obtain crucial information about the industry's value chain, revenue models, the market's monetary chain, the total pool of key players, and the current and potential use cases and applications.

The key data points taken from secondary research include:

segmentations and percentage shares

data for market value

key industry trends of the top players of the market

qualitative insights into various aspects of the market, key trends, and emerging areas of innovation

quantitative data for mathematical and statistical calculations

Key Market Players and Competition Synopsis

The companies profiled in the U.S. indoor distributed antenna system (DAS) market have been selected based on primary experts' inputs and analysis of company coverage, product portfolio, and market penetration.

Some of the prominent names in this market are:

CommScope, Inc.

Corning Incorporated

Advanced RF Technologies, Inc. (ADRF)

Airspan

JMA Wireless

Boingo Wireless, Inc.

TE Connectivity

RADIOINTEG

SOLiD

ATC TRS V LLC.

Companies not a part of the aforementioned pool have been well represented across different report sections (wherever applicable).

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