

Distributed Antenna Systems Market Size, Share & Trends Analysis Report By Coverage (Indoor DAS, Outdoor DAS), By Technology, By Ownership, By Signal Source, By Application, By Region, And Segment Forecasts, 2024 - 2030

<https://marketpublishers.com/r/D0448B6AF2C1EN.html>

Date: June 2024

Pages: 166

Price: US\$ 4,950.00 (Single User License)

ID: D0448B6AF2C1EN

Abstracts

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Distributed Antenna Systems Market Growth & Trends

The global distributed antenna systems market size is expected to reach USD 26.64 billion by 2030, growing at a CAGR of 18.0% from 2024 to 2030, according to a new study by Grand View Research, Inc. The escalating need for reliable and high-performance network infrastructure, particularly in high-density urban areas and large buildings, is driving the growth of the market.

The increasing reliance on smartphones and IoT devices, coupled with rising expectations for superior network coverage, has fueled the market growth. The proliferation of smartphones, IoT devices, and bandwidth-intensive applications has led to a surge in data consumption. This exponential growth in data traffic necessitates robust infrastructure such as distributed antenna systems (DAS) to support the increasing demands for connectivity. Furthermore, the implementation of public safety networks in high-rise buildings, shopping malls, parking garages, tunnels, and airports is critical for ensuring safety measures. DAS solutions are being widely deployed in these areas to provide reliable and uninterrupted network connectivity.

The integration of DAS with 5G technology represents a significant advancement in wireless communication infrastructure, which is further boosting the market growth. 5G

technology offers ultra-fast internet speeds, low latency, and high reliability, making it ideal for applications such as autonomous vehicles, smart cities, IoT devices, and augmented reality, among others.

Furthermore, safety and security considerations are prompting the adoption of DAS in public venues. In emergency situations, effective communication is crucial, and DAS ensures that first responders and public safety officials can communicate reliably within buildings and other structures. This requirement has led regulatory bodies in various countries to mandate the installation of DAS to meet public safety communication standards.

Additionally, the competitive nature of the commercial sector is influencing the expansion of the DAS market. Businesses recognize the importance of providing superior connectivity to attract and retain customers, making investing in DAS a strategic move for commercial entities seeking to differentiate themselves in the marketplace.

Distributed Antenna Systems Market Report Highlights

Based on technology, the passive DAS segment dominated the market in 2023 owing to the ease of installation and deployment that it offer. The passive DAS systems are typically simpler and quicker since they do not involve complex electronic components that need to be integrated into the system

Based on coverage, the indoor DAS segment dominated the market in 2023. This growth is driven by the proliferation of mobile devices and the subsequent surge in data traffic, necessitating reliable, and high-capacity indoor wireless coverage

Based on ownership, the neutral-host ownership segment dominated the market in 2023. Neutral-host ownership envisages a third party managing the DAS infrastructure, allowing carriers to improve network efficiency without increasing costs, making it a preferred choice in public venues and large buildings where strong signals from multiple carriers are required

Based on signal sources, the small cells segment dominated the market in 2023. This growth is driven by the crucial role small cells can play in facilitating high-speed mobile data services amid the continued rollout of 5G networks and the ever-growing data traffic demands

Based on application, healthcare accounted for a significant revenue share of the DAS market. Hospitals and medical facilities increasingly rely on DAS to ensure robust wireless connectivity for critical communication, patient monitoring, and data transmission

North America dominated the market in 2023 due to the expanding LTE and 5G networks, the increasing mobile data traffic, and the rising demand for seamless connectivity in various industries

In May 2024, Telefonaktiebolaget LM Ericsson and Qualcomm Technologies Inc. collaborated to successfully complete a proof-of-concept at the Ericsson USA 5G Smart Factory. The project comprised an autonomous drone that used 5G mmWave technology to conduct missions within the plant

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