

Distributed Antenna Systems Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

Market Report | 2023-01-23 | 120 pages | Mordor Intelligence

AVAILABLE LICENSES:

- Single User License \$4750.00
- Team License (1-7 Users) \$5250.00
- Site License \$6500.00
- Corporate License \$8750.00

Report description:

The Distributed Antenna Systems (DAS) market is anticipated to grow at a CAGR of 10.2% over the forecast period. The developments in communication technology that have led to the evolution of high-speed connectivity, lesser power-consuming network devices, and more substantial connectivity coverage have boosted the market for DAS systems. Additionally, the rising demand for stable and uninterrupted connectivity and the growing number of connected devices support the studied market's growth.

Key Highlights

Although the concept of distributed antenna systems has existed for many years, the increased deployment of wireless networks within buildings with potential applications across smart homes and connected devices has increasingly encouraged the implementation of DAS systems in the market as it provides several advantages over single-antenna systems, enabling businesses to get the coverage necessary for applications.?

While customers expect ubiquitous high-quality voice coverage, the rapidly increasing use of data and video-driven applications redefine DAS systems' role.

Further, Distributed Antenna Systems have become more than an indoor network coverage solution for voice calls. For instance, in smart cities, DAS has emerged as a critical solution in helping create the required infrastructure for achieving connected systems. Smart buildings, hospitals, shopping complexes, and vehicular traffic management need continuous communication; thus, this is expected to boost market demand.

The wireless industry continuously strives to keep pace with the increasing demand for higher bandwidth and increased data usage for high-speed applications by deploying LTE standards and the LTE-Advanced (LTE-A) standards. Relying on macro cellular networks alone could not meet the requirements of the last generation of applications. This has further emphasized the need to deploy DAS networks to accommodate user demands such as services in offices, homes, stadiums, airports, and high-rises.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

However, the cost of distributed antenna systems is among the significant factor challenging the studied market's growth, as the price of a DAS solution varies based on the time and range. For example, passive DAS used to identify the coverage of cellular carriers simultaneously is at the lower end and may cost only a couple of hundreds or thousands of dollars; however, active DAS used for enhancing in-building coverage of one or more mobile service provider networks comes at higher costs. During the COVID-19 crisis, crucial technologies play a vital role in keeping society functional during lockdowns and quarantines. DAS and other related technologies are expected to have a long-lasting impact. Continuous monitoring for the emerging signs of a possible new world order post-COVID-19 crisis is a must for aspiring businesses, and the major players are seeking to find success in the now-changing Distributed Antenna Systems (DAS), which is expected to drive investments, supporting the growth of the studied market during the forecast period.

Distributed Antenna Systems Market Trends

Sport and Entertainment Segment to Hold a Significant Market Share

Distributed Antenna Systems (DAS) provide wireless service via an antenna system, mainly to large infrastructural establishments such as sports complexes, stadiums, etc., to provide even connectivity and to ensure that emergency responders maintain wireless communications within a building structure and on-the-job in emergencies, considering large gatherings at these places. Currently, sports and entertainment fans expect uninterrupted wireless service that can enable them to quickly and easily stay connected with their friends and family while enjoying any live event. Moreover, updating social media, sharing photos and videos, sending texts, and placing calls are integral and expected parts of experiencing a live event. However, stadiums and arenas have presented unique challenges for mobile communications due to their size, shape, and variation in data use. The in-building wireless solutions have solved these unique challenges of stadiums and arenas to ensure that spectators always have reliable connectivity. Using DAS systems, stadiums can also equip their security personnel and public safety, first responders with mission-critical communication resources supporting both cellular and public safety bands. Moreover, 5G technology impacts almost every aspect of people's lives, including fans' experience at any sports and entertainment venue. New stadiums are being built with 5G-ready technologies taken into consideration from the beginning, while multiple existing platforms are also incorporating them to keep up with fans' expectations and streamline connectivity through innovative solutions. Furthermore, the increasing number of sporting and entertainment events being organized globally, driving investment in the construction of new stadiums and sports and entertainment complexes, are expected to create a favorable market scenario for the studied market growth. For instance, Live Nation, a leading event organization, organized about 17,234 events worldwide in 2021. Although the number has declined primarily due to COVID, it is expected to gain traction during the forecast period.

Asia-Pacific to Witness Highest Growth

Owing to the rapidly increasing construction of high-rise residential buildings and commercial spaces, such as malls and business parks, coupled with the multiple government initiatives, such as Smart Nation Singapore and Smart Cities Mission India, among others, with a growing volume of 4G enabled smartphones, the rising popularity of Bring Your Own Device trends have been some of the other factors that are driving the region's DAS market. The recent advancements in cellular technology are one of the major factors for the region's excellent growth over the forecast period. This can be attributed to the growing number of planned deployments of LTE networks in emerging economies. Also, the virtualization of mobile networks and the rapid adoption of open APIs are other factors contributing to the market's growth. Asia-Pacific has been a region of contrasts. Advanced markets such as South Korea and Japan have had network densification

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

projects for 5G for the past few years. The highly urbanized Chinese administrative regions of Hong Kong and Macau and the city-state of Singapore are comparable in their extensive usage of small cells and DAS. On the other hand, the development curve in emerging markets such as India and Indonesia which are still relying on the traditional macro-towers in order to cover their large rural populations. The Maldives and the Pacific island nations are also an example of this group, eschewing towers altogether in favor of even less expensive satellite-based mobile networks.

Hence, Mainland China, South Korea, and Japan are currently the largest tower markets in the region. However, tower coverage in these markets has already reached the majority of the population, which implies that future tower growth would significantly rely on network densification in urban areas through the usage of small cells and DAS.

The region is also witnessing several partnerships and collaborations, paving the way for further technological evolution. For instance, Nokia and China Mobile have jointly developed this 5G low-cost hybrid distributed indoor system in order to meet these challenges. The smart indoor coverage system leverages the Nokia 5G Pico Remote Radio Head system together with the passive DAS antennas and Bluetooth Low Energy (BLE) technology. This new solution also reduces deployment costs as compared to the traditional passive-only DAS systems while delivering greater capacity than DAS.

Distributed Antenna Systems Market Competitor Analysis

The distributed antenna systems market is moderately competitive; however, the competition is expected to grow owing to the increasing mobile data traffic, the proliferation of connected devices due to the Internet of Things (IoT), the rising need for spectrum efficiency, and the growing consumer demand for extended network coverage and uninterrupted connectivity. Many companies are now entering the market with an array of scopes. Some of the key players in the market are Anixter, CommScope, TE Connectivity, Corning Inc., and American Tower Corporation. Some recent developments in the market include:

December 2022 - Real Betis Balompie football club announced a partnership with Cellnex, a wireless telecommunication and broadcasting infrastructure provider, to develop the club's digital infrastructure and provide the best digital experience for its fans. Per this agreement, Cellnex installed a distributed antenna system (DAS) at the Benito Villamarin Stadium.

November 2022 - Advanced RF Technologies (ADRF), a leading pure-play distributed antenna system (DAS) and repeater provider, launched its new ADXV DAS C-band solution and the SDRX C-band repeater. The ADXV DAS C-band modules include high-power remote (HPR) and mid-power remote (MPR) options supporting C-band frequencies ranging from 3.7 GHz to 3.98 GHz and allow building owners, mobile carriers, system integrators, and neutral hosts to bring ubiquitous 5G coverage for buildings and venues of every size.

Additional Benefits:

The market estimate (ME) sheet in Excel format
3 months of analyst support

Table of Contents:

1 INTRODUCTION

1.1 Study Assumptions and Market Definition

1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

4 MARKET DYNAMICS

- 4.1 Market Overview
- 4.2 Industry Value Chain Analysis
- 4.3 Industry Attractiveness - Porter's Five Forces Analysis
 - 4.3.1 Bargaining Power of Suppliers
 - 4.3.2 Bargaining Power of Buyers
 - 4.3.3 Threat of New Entrants
 - 4.3.4 Threat of Substitute Products
 - 4.3.5 Intensity of Competitive Rivalry
- 4.4 Impact of COVID-19 on the Market

5 MARKET DYNAMICS

- 5.1 Market Drivers
 - 5.1.1 DAS Ability to Support Multiple Telecom Carriers and Upcoming Technologies
- 5.2 Market Challenges
 - 5.2.1 High Cost to Upgrade challenges the Market Growth

6 MARKET SEGMENTATION

- 6.1 By Type
 - 6.1.1 Active
 - 6.1.2 Passive
 - 6.1.3 Digital
 - 6.1.4 Hybrid
- 6.2 By End User
 - 6.2.1 Manufacturing
 - 6.2.2 Healthcare
 - 6.2.3 Government
 - 6.2.4 Transportation
 - 6.2.5 Sports and Entertainment
 - 6.2.6 Telecommunications
 - 6.2.7 Other End Users
- 6.3 By Application
 - 6.3.1 Enterprise DAS
 - 6.3.2 Public Safety DAS
 - 6.3.3 Other Applications
- 6.4 Geography
 - 6.4.1 North America
 - 6.4.2 Europe
 - 6.4.3 Asia - Pacific
 - 6.4.4 Latin America
 - 6.4.5 Middle East & Africa

7 COMPETITIVE LANDSCAPE

- 7.1 Company Profiles
 - 7.1.1 Anixter Inc.
 - 7.1.2 Cobham PLC

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 7.1.3 Antenna Products Corporation
- 7.1.4 CommScope Inc.
- 7.1.5 Tower Bersama Group
- 7.1.6 SOLiD Inc.
- 7.1.7 TE Connectivity Ltd
- 7.1.8 Corning Inc.
- 7.1.9 Comba Telecom Systems Holdings Ltd
- 7.1.10 Boingo Wireless Inc.
- 7.1.11 American Tower Corporation

8 INVESTMENT ANALYSIS

9 FUTURE OUTLOOK OF THE MARKET

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Distributed Antenna Systems Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

Market Report | 2023-01-23 | 120 pages | Mordor Intelligence

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	\$4750.00
	Team License (1-7 Users)	\$5250.00
	Site License	\$6500.00
	Corporate License	\$8750.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-05"/>
		Signature	

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com



Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com