

U.S. Distributed Antenna Systems Market Size, Share & Trends Analysis Report By Coverage, By Ownership (Carrier Ownership, Neutral-Host Ownership), By Signal Source, By Application, And Segment Forecasts, 2025 - 2030

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Abstracts

Market Size & Trends

The U.S. distributed antenna systems market size was estimated at USD 2,247.8 million in 2024 and is projected to reach USD 5,622.4 million by 2030, growing at a CAGR of 17.1% from 2025 to 2030. The growth is primarily driven by increasing demand for seamless and high-capacity wireless connectivity and rising adoption of 5G networks. The integration of distributed antenna systems (DAS) with public safety networks and transportation hubs is improving communication resilience. Growing investments in network upgrades, stringent Federal Communications Commission (FCC) regulations, and the need for efficient spectrum utilization are expected to drive the market growth.

The rapid advancement and adoption of Industrial Internet of Things (IIoT) platforms and edge computing technologies have significantly transformed the U.S. distributed antenna systems industry. Enhanced network performance through AI-driven optimization, real-time signal monitoring, and dynamic frequency allocation enables enterprises to improve connectivity. The increasing deployment of 5G networks and private LTE solutions in industrial corridors and urban areas further drives the need for reliable and scalable distributed antenna systems solutions.

Additionally, growing investments in smart infrastructure and next-generation communication networks are fueling the expansion of the U.S. distributed antenna systems market. Government-backed initiatives such as the National Broadband Plan

and public-private partnerships are aimed at improving rural connectivity. The increasing adoption of automated manufacturing lines, remote monitoring systems, and connected logistics hubs is creating demand for uninterrupted, low-latency communication networks supported by robust DAS deployments across diverse sectors.

Furthermore, the heightened focus on emergency communication systems and public safety infrastructure is a key driver for the U.S. distributed antenna systems industry. Federal mandates such as the FirstNet initiative, along with state-specific regulatory frameworks, are compelling organizations to upgrade legacy communication networks. The integration of mission-critical voice, video, and data services over secure, resilient DAS platforms is helping first responders, hospitals, and municipal authorities enhance situational awareness and coordinate responses.

Moreover, the growing emphasis on energy efficiency and sustainable communication infrastructure is crucial in supporting the expansion of the market. Facility operators, technology providers, and government agencies promote smart power management systems and passive antenna designs. Incentives, tax credits, and grant programs encourage investments in energy-efficient network solutions. Corporate sustainability initiatives and consumer demand for eco-friendly technologies drive adoption across the U.S. distributed antenna systems industry.

U.S. Distributed Antenna Systems Market Report Segmentation

This report forecasts revenue growth at the country level and provides an analysis of the latest technology trends in each of the sub-segments from 2018 to 2030. For this study, Grand View Research has segmented the U.S. distributed antenna systems market report based on coverage, ownership, signal source, and application:

Coverage Outlook (Revenue, USD Million, 2018 - 2030)

Indoor DAS

Active DAS

Amplifiers (Remote Units)

Master Units

Cables

Others

Passive DAS

Antennas

Signal Boosters

Splitters and Combiners

Cables

Others

Hybrid DAS

Outdoor DAS

Ownership Outlook (Revenue, USD Million, 2018 - 2030)

Carrier Ownership

Neutral-Host Ownership

Enterprise Ownership

Signal Source Outlook (Revenue, USD Million, 2018 - 2030)

On-site Base Transceiver Station

Off-Air Antennas

Small Cell

Application Outlook (Revenue, USD Million, 2018 - 2030)

Indoor DAS

Public Venue & Safety

Hospitality

Airport & Transportation

Healthcare

Education Sector & Corporate Offices

Industrial

Others

Outdoor DAS

Public Venue & Safety

Hospitality

Airport & Transportation

Healthcare

Education Sector & Corporate Offices

Industrial

Others

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