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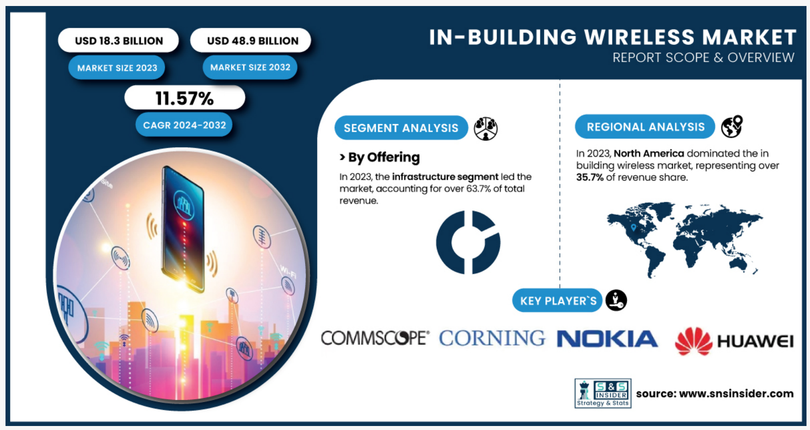
In-building Wireless Market Size to Surpass USD 48.9 Billion by 2032 Owing to Surge in Smart Technologies and 5G Rollout

The In-Building Wireless Market is growing rapidly, driven by the rising demand for mobile connectivity and advanced wireless technologies.



In-building-Wireless-Market

AUSTIN, TX, UNITED STATES, January 30, 2025 /EINPresswire.com/ -- The [In-Building Wireless Market](#) size was USD 18.3 Billion in 2023 and is expected to reach USD 48.9 Billion by 2032, growing at a CAGR of 11.57% over the forecast period of 2024-2032.

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Keyplayers:
- CommScope – OneCell Small Cell Solution
- Corning Incorporated – Corning Optical Network Evolution (ONE) DAS
- Nokia – Nokia AirScale Indoor Radio
- Ericsson – Ericsson Radio Dot System
- Huawei – Huawei LampSite
- ZTE Corporation – ZTE QCell Indoor Solution
- Samsung Electronics – Samsung LinkCell
- AT&T – AT&T Distributed Antenna System (DAS)
- Verizon – Verizon In-Building 5G Solutions
- Comba Telecom Systems – Comba DAS (Distributed Antenna System)
- SOLiD – SOLiD ALLIANCE DAS
- DASAN Zhone Solutions – DASAN DAS Solutions
- Boingo Wireless – Boingo Neutral Host DAS
- JMA Wireless – TEKO DAS
- TE Connectivity – FlexWave Spectrum DAS
- Airspan Networks – Airspan AirVelocity
- Advanced RF Technologies (ADRF) – ADXV DAS

Casa Systems – Axyom Indoor Small Cells
Betacom – Betacom Private 5G Networks
Intracom Telecom – WiBAS Indoor Solutions

In-Building Wireless Market Expands Rapidly with 5G Adoption and Digital Transformation
The in-building wireless market is rapidly expanding as organizations prioritize seamless connectivity to support digital transformation. Adopted 5G technology allows much faster data speed and bandwidth-intensive applications, which are very well-suited to enable applications like AR and VR, which has contributed significantly to this growth. Growth in the areas of healthcare, retail, and hospitality is going wirelessly because that allows for much better communication in real-time, coupled with enhanced data flow. FCC is supporting its broadband effort. So business is expected to spend money on more competitive infrastructures of high-speed connectivity which means significant growth fueled by both.

Segment Analysis

By Offering
In 2023, the infrastructure segment led the market, accounting for over 63.7% of total revenue. In-building wireless infrastructure overcomes challenges posed by building materials such as steel, concrete, and low-emissivity glass, which can block or weaken cellular signals. Specialized equipment enhances and distributes cellular signals, so occupants remain connected to their mobile devices no matter where they are in the building.
The services segment is projected to experience significant growth during the forecast period. This increasing complexity of modern in-building wireless systems has also raised the demand for professional services, such as design, installation, and ongoing maintenance to ensure the best performance. Furthermore, the rapid deployment of 5G networks and integration of advanced technologies such as IoT and AI have further heightened the demand for specialized expertise and support.

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By Application
In 2023, the commercial campuses segment held the largest share of the market, driven by strong demand for advanced wireless infrastructure across expansive facilities such as office parks, business centers, and industrial campuses. These locations require comprehensive in-building wireless systems to support high user volumes, numerous devices, and diverse applications. The need for seamless connectivity over large areas, coupled with the adoption of smart building technologies and high-speed internet, is spurring significant investment in solutions like DAS and small cells.

The Transportation and Logistics segment is expected to grow at the highest CAGR over the forecast period 20242 -2032. This growth is credited to the increasing demand for more sophisticated in-building wireless solutions catering to the changed needs of transportation and logistics. Supply chains are now better integrated and digitalized, making continuity at warehouses, distribution centers, and transport hubs highly critical.

Regional Analysis

In 2023, North America dominated the in-building wireless market, accounting for over 35.7% of the total revenue share. Investment in advanced wireless technologies is primarily led by the U.S. and Canada, given their sound economic foundation and strong, well-developed digital infrastructure. 5G networks were rolled out rapidly, further demanding advanced wireless systems to accommodate higher data speeds and frequencies for reliable in-building connectivity.

The Asia Pacific region is expected to experience the highest growth rate during the forecast period, driven by urbanization, increasing infrastructure investments, and the expansion of 5G networks. The region’s dynamic tech sector, coupled with widespread digital transformation initiatives, is intensifying the demand for seamless wireless connectivity in buildings.

Recent Developments

• In February 2024, Corning teamed up with Dell Technologies and Intel to launch a new Radio Access Network (RAN) Compute Platform designed to accelerate the rollout of 5G networks within high-density buildings. This platform aims to provide a flexible and cost-effective solution for enhancing wireless coverage and improving user experiences in locations such as airports, hotels, and office buildings.

• In February 2024, CommScope unveiled its integration of Open RAN technology in indoor wireless solutions. The company enhanced Open RAN support on its ERA DAS and ONECELL small cells, facilitating the creation of open, sustainable, and converged 5G indoor networks, and promoting seamless and flexible wireless solutions for commercial and industrial facilities.

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Akash Anand
SNS Insider | Strategy and Stats
+1 415-230-0044
email us here

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