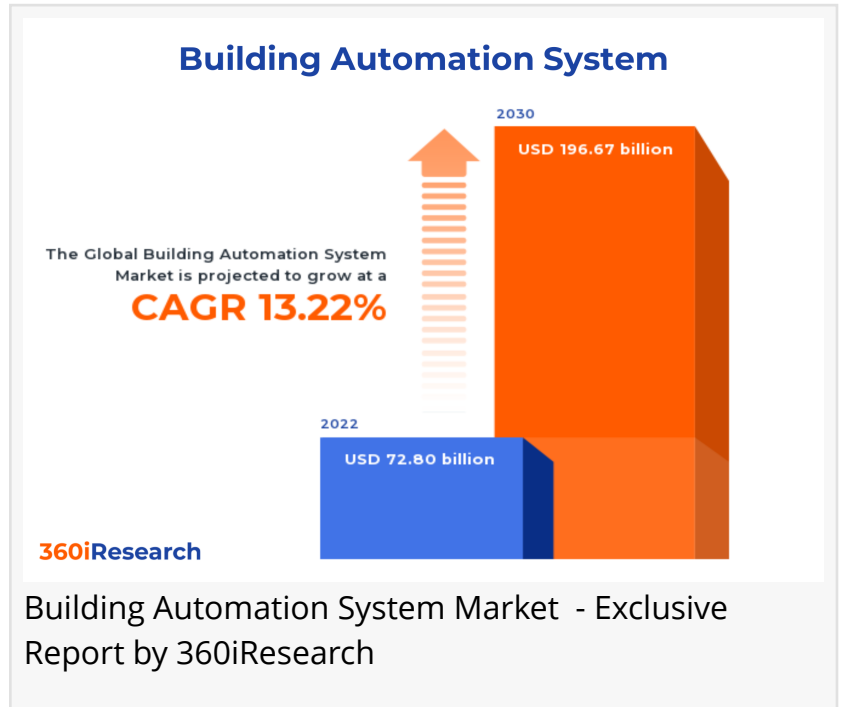


Building Automation System Market worth \$196.67 billion by 2030 - Exclusive Report by 360iResearch

The Global Building Automation System Market to grow from USD 72.80 billion in 2022 to USD 196.67 billion by 2030, at a CAGR of 13.22%.

PUNE, MAHARASHTRA, INDIA ,
December 7, 2023 /EINPresswire.com/
-- The "[Building Automation System Market](#) by Component (Hardware, Software), Offering (BAS Services, Building Energy Management Software, Facility Management Systems), Communication Technology, Application - Global Forecast 2023-2030" report has been added to 360iResearch.com's offering.



The Global Building Automation System Market to grow from USD 72.80 billion in 2022 to USD 196.67 billion by 2030, at a CAGR of 13.22%.

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The building automation system market encompasses the sale, distribution, implementation, and management of systems designed to automate, control, and monitor a building's electrical and mechanical functions. The primary objective of building automation systems is to enhance operational efficiency, facilitate optimal resource utilization, and implement efficient energy management, ultimately ensuring significant cost savings. The rising focus for establishing energy-efficient and eco-friendly buildings is increasing the adoption of building automation systems. The surge in adoption of automated security systems in buildings & rapid penetration of IoT in building automation systems is also contributing to the market growth worldwide. However, high installation costs of building automation systems and presence of different communication protocols may limit the adoption of building automation systems in upcoming

years. Moreover, the advancements in building technologies and automation with data analytics are generating opportunities for market growth. The rise in government and stakeholder funding for developing smart cities are expected to increase adoption of building automation systems. The development of wireless protocols and wireless sensor network technology for building automation systems is also expected to create growth potential in the market.

Communication Technology: Rising adoption of wireless technology

Wired technology is the fixture in traditional building automation systems typically involving the use of Ethernet cables to establish a reliable communication network. The primary advantages of this network are its data security, minimal interference, and consistent high-speed connection. Wireless technology has brought in a surge of adaptability and flexibility within building automation systems, allowing remote control and management using technologies such as Wi-Fi, Bluetooth, Z-Wave, and Zigbee. The primary advantage of wireless technology in building automation systems involves its convenience, scalability, and cost-effectiveness.

Offering: Ongoing enhancements in facility management systems

Building automation services primarily involve system integration, servicing, and maintenance operations, ensuring smooth and efficient running of building automation solutions. The building energy management software is designed to reduce energy usage, optimize performance and prolong the life of utilities. Facility management systems ensure an adequate working environment and prioritize the health and safety of occupants. Fire protection systems and security & access controls hold prime importance in terms of safety and security across all building types from fire hazards and unauthorized entrants.

Component: Technology upgrades in building automation hardware & softwares

The hardware in building automation systems comprises the physical components such as controllers, sensors, actuators, output & input devices, and user interface devices, integral to the operation and functionality of the overall system. The hardware components primarily focus on the specific requirements of a building infrastructure to efficiently monitor and control the building's mechanical and electrical systems. The softwares in building automation systems serves as the central platform for managing and interacting with the system's hardware components. The software allows for seamless communication amongst the devices, as well as facilitating ease in inputting, outputting, processing, and storing data.

Application: Diverse scope of applications in various end-users

Airports and railway stations often have vast structures which demand advanced building automation systems for seamless operations, enhancing energy efficiency, and centralizing control systems for cost savings. In commercial and office buildings, building automation systems primarily focus on aiding HVAC systems, reducing energy consumption and providing better control over building operations. Healthcare facilities require sophisticated systems to guarantee patient safety and comfort and efficiently manage ventilation, air conditioning, heating, and lighting solutions. Industrial facilities require high-performing building automation systems to manage intricate processes, ensure uninterrupted operations, and minimize waste.

Building automation systems in residential buildings focus primarily on enhancing comfort, managing energy consumption, and securing homes.

Regional Insights:

In the Americas region, the demand for building automation systems has risen substantially in major countries including the United States, Canada, Brazil and Mexico. The Americas region shows significant growth potential due to the strong presence of key players, committed to developing technologically advanced building automation systems. In European countries, strict guidelines towards climate control and energy conservation have motivated the rapid uptake of building automation systems. In major countries such as Germany, France, and the UK, the private sector have introduced initiatives focused on retrofitting existing buildings with modern technology for improved energy efficiency and waste reduction. High temperatures and climate conditions have made effective energy regulation a key concern in Middle-East countries thereby influencing purchasing behavior in the region. Accelerating urban growth and the increasing middle-class population are driving customer needs and purchasing behavior of building automation systems in the APAC region. Countries such as China, India, and Japan are driven by rapid urbanization and increasing environmental concerns, showing positive trends in implementing green, cost-effective technologies.

FPNV Positioning Matrix:

The FPNV Positioning Matrix is essential for assessing the Building Automation System Market. It provides a comprehensive evaluation of vendors by examining key metrics within Business Strategy and Product Satisfaction, allowing users to make informed decisions based on their specific needs. This advanced analysis then organizes these vendors into four distinct quadrants, which represent varying levels of success: Forefront (F), Pathfinder (P), Niche (N), or Vital(V).

Market Share Analysis:

The Market Share Analysis offers an insightful look at the current state of vendors in the Building Automation System Market. By comparing vendor contributions to overall revenue, customer base, and other key metrics, we can give companies a greater understanding of their performance and what they are up against when competing for market share. The analysis also sheds light on just how competitive any given sector is about accumulation, fragmentation dominance, and amalgamation traits over the base year period studied.

Key Company Profiles:

The report delves into recent significant developments in the Building Automation System Market, highlighting leading vendors and their innovative profiles. These include ABB Ltd., Bajaj Electricals Limited, Bosch Sicherheitssysteme GmbH, Building LogiX, Carel Industries S.p.A., Carrier Global Corporation, Cisco Systems, Inc., Crestron Electronics, Inc., Delta Electronics, Inc., Emerson Electric Co., Fuji Electric Co., Ltd., General Electric Company, Google LLC by Alphabet

Inc., Hitachi Ltd., Honeywell International Inc., Huawei Technologies Corporation, Hubbell Inc., Ingersoll Rand, Johnson Controls International PLC, KMC Controls, Inc., Koninklijke Philips N.V., Larsen & Toubro Limited, Lutron Electronics Co. Ltd, Mitsubishi Electric Corporation, Robert Bosch GmbH, Schneider Electric SE, Siemens AG, and Trane Technologies PLC.

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Market Segmentation & Coverage:

This research report categorizes the Building Automation System Market in order to forecast the revenues and analyze trends in each of following sub-markets:

Based on Component, market is studied across Hardware and Software. The Software is projected to witness significant market share during forecast period.

Based on Offering, market is studied across BAS Services, Building Energy Management Software, Facility Management Systems, Fire Protection Systems, and Security & Access Controls. The Building Energy Management Software is projected to witness significant market share during forecast period.

Based on Communication Technology, market is studied across Wired Technology and Wireless Technology. The Wireless Technology is projected to witness significant market share during forecast period.

Based on Application, market is studied across Airports & Railway Stations, Commercial & Office Buildings, Hospitals & Healthcare Facilities, Industrial Facilities, Residential Buildings, and Retail & Public Assembly Buildings. The Industrial Facilities is projected to witness significant market share during forecast period.

Based on Region, market is studied across Americas, Asia-Pacific, and Europe, Middle East & Africa. The Americas is further studied across Argentina, Brazil, Canada, Mexico, and United States. The United States is further studied across California, Florida, Illinois, New York, Ohio, Pennsylvania, and Texas. The Asia-Pacific is further studied across Australia, China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, Thailand, and Vietnam. The Europe, Middle East & Africa is further studied across Denmark, Egypt, Finland, France, Germany, Israel, Italy, Netherlands, Nigeria, Norway, Poland, Qatar, Russia, Saudi Arabia, South Africa, Spain, Sweden, Switzerland, Turkey, United Arab Emirates, and United Kingdom. The Americas commanded largest market share of 37.98% in 2022, followed by Europe, Middle East & Africa.

Key Topics Covered:

1. Preface
2. Research Methodology
3. Executive Summary
4. Market Overview
5. Market Insights
6. Building Automation System Market, by Component
7. Building Automation System Market, by Offering
8. Building Automation System Market, by Communication Technology
9. Building Automation System Market, by Application
10. Americas Building Automation System Market
11. Asia-Pacific Building Automation System Market
12. Europe, Middle East & Africa Building Automation System Market
13. Competitive Landscape
14. Competitive Portfolio
15. Appendix

The report provides insights on the following pointers:

1. Market Penetration: Provides comprehensive information on the market offered by the key players
2. Market Development: Provides in-depth information about lucrative emerging markets and analyzes penetration across mature segments of the markets
3. Market Diversification: Provides detailed information about new product launches, untapped geographies, recent developments, and investments
4. Competitive Assessment & Intelligence: Provides an exhaustive assessment of market shares, strategies, products, certification, regulatory approvals, patent landscape, and manufacturing capabilities of the leading players
5. Product Development & Innovation: Provides intelligent insights on future technologies, R&D activities, and breakthrough product developments

The report answers questions such as:

1. What is the market size and forecast of the Building Automation System Market?
2. Which are the products/segments/applications/areas to invest in over the forecast period in the Building Automation System Market?
3. What is the competitive strategic window for opportunities in the Building Automation System Market?
4. What are the technology trends and regulatory frameworks in the Building Automation System Market?
5. What is the market share of the leading vendors in the Building Automation System Market?
6. What modes and strategic moves are considered suitable for entering the Building Automation System Market?

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