

# Global AI Building Automation Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global AI Building Automation market size is expected to reach \$ 835 million by 2032, rising at a market growth of 9.3% CAGR during the forecast period (2026-2032).

AI Building Automation refers to the deep integration of machine learning, computer vision, and big data analytics into traditional building management systems, constructing a smart building neural network with self-sensing, self-decision-making, and self-optimization capabilities. Its core lies in using IoT sensors to collect real-time environmental, equipment, and pedestrian data, and leveraging AI algorithms to dynamically optimize the coordinated operation of subsystems such as HVAC, lighting, and elevators, achieving maximum energy savings while ensuring spatial comfort. This technology can also predict equipment failures through predictive maintenance and optimize space utilization based on human behavior analysis, ultimately driving building operation and maintenance from automation controlled by preset rules to intelligent decision-making based on cognition.

The global AI Building Automation market is currently in a critical growth phase characterized by technological integration and explosive demand. Markets centered in North America, Europe, and China are accelerating their upgrade from single-point device control to a holistic intelligent management system based on 'AI + digital twins.' The industry is focusing on scenarios such as AI-driven energy efficiency optimization of HVAC systems, predictive maintenance, and seamless access and dynamic spatial optimization. Technology companies and traditional building automation vendors are deeply integrating, driving the evolution of buildings from passive response to self-learning capabilities through the deployment of edge computing and cloud-edge collaborative architectures. Despite challenges such as high costs of retrofitting existing buildings and data heterogeneity, the market as a whole continues to maintain strong

growth momentum.

This report studies the global AI Building Automation demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI Building Automation, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of AI Building Automation that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global AI Building Automation total market, 2021-2032, (USD Million)

Global AI Building Automation total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: AI Building Automation total market, key domestic companies, and share, (USD Million)

Global AI Building Automation revenue by player, revenue and market share 2021-2026, (USD Million)

Global AI Building Automation total market by Type, CAGR, 2021-2032, (USD Million)

Global AI Building Automation total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global AI Building Automation market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include BrainBox AI, NeuronCloud, Siemens, Schneider Electric, Honeywell, Johnson Controls, Assemblin, Trane Technologies, Optimal Controls AI, Delta, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices

used in analyzing the world AI Building Automation market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

#### Global AI Building Automation Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global AI Building Automation Market, Segmentation by Type:

AI Environmental Perception

AI Predictive Maintenance

AI Behavior Recognition and Security

AI Space Management

Others

### Global AI Building Automation Market, Segmentation by Deployment:

Cloud AI

Edge AI

Device AI

### Global AI Building Automation Market, Segmentation by Technology:

AI based on Model Predictive Control (MPC)

AI based on Reinforcement Learning

AI based on Occupancy-based Dynamic Regulation

### Global AI Building Automation Market, Segmentation by Application:

Commercial and Office Building

Industrial Building

Residential Building

Others

### Companies Profiled:

BrainBox AI

NeuronCloud

Siemens

Schneider Electric

Honeywell

Johnson Controls

Asseblin

Trane Technologies

Optimal Controls AI

Delta

E Tech Group

#### Key Questions Answered

1. How big is the global AI Building Automation market?
2. What is the demand of the global AI Building Automation market?
3. What is the year over year growth of the global AI Building Automation market?
4. What is the total value of the global AI Building Automation market?
5. Who are the Major Players in the global AI Building Automation market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 AI Building Automation Introduction
- 1.2 World AI Building Automation Market Size & Forecast (2021 & 2025 & 2032)
- 1.3 World AI Building Automation Total Market by Region (by Headquarter Location)
  - 1.3.1 World AI Building Automation Market Size by Region (2021-2032), (by Headquarter Location)
  - 1.3.2 United States Based Company AI Building Automation Revenue (2021-2032)
  - 1.3.3 China Based Company AI Building Automation Revenue (2021-2032)
  - 1.3.4 Europe Based Company AI Building Automation Revenue (2021-2032)
  - 1.3.5 Japan Based Company AI Building Automation Revenue (2021-2032)
  - 1.3.6 South Korea Based Company AI Building Automation Revenue (2021-2032)
  - 1.3.7 ASEAN Based Company AI Building Automation Revenue (2021-2032)
  - 1.3.8 India Based Company AI Building Automation Revenue (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 AI Building Automation Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World AI Building Automation Consumption Value (2021-2032)
- 2.2 World AI Building Automation Consumption Value by Region
  - 2.2.1 World AI Building Automation Consumption Value by Region (2021-2026)
  - 2.2.2 World AI Building Automation Consumption Value Forecast by Region (2027-2032)
- 2.3 United States AI Building Automation Consumption Value (2021-2032)
- 2.4 China AI Building Automation Consumption Value (2021-2032)
- 2.5 Europe AI Building Automation Consumption Value (2021-2032)
- 2.6 Japan AI Building Automation Consumption Value (2021-2032)
- 2.7 South Korea AI Building Automation Consumption Value (2021-2032)
- 2.8 ASEAN AI Building Automation Consumption Value (2021-2032)
- 2.9 India AI Building Automation Consumption Value (2021-2032)

### 3 WORLD AI BUILDING AUTOMATION COMPANIES COMPETITIVE ANALYSIS

- 3.1 World AI Building Automation Revenue by Player (2021-2026)

### 3.2 Industry Rank and Concentration Rate (CR)

#### 3.2.1 Global AI Building Automation Industry Rank of Major Players

#### 3.2.2 Global Concentration Ratios (CR4) for AI Building Automation in 2025

#### 3.2.3 Global Concentration Ratios (CR8) for AI Building Automation in 2025

### 3.3 AI Building Automation Company Evaluation Quadrant

### 3.4 AI Building Automation Market: Overall Company Footprint Analysis

#### 3.4.1 AI Building Automation Market: Region Footprint

#### 3.4.2 AI Building Automation Market: Company Product Type Footprint

#### 3.4.3 AI Building Automation Market: Company Product Application Footprint

### 3.5 Competitive Environment

#### 3.5.1 Historical Structure of the Industry

#### 3.5.2 Barriers of Market Entry

#### 3.5.3 Factors of Competition

### 3.6 Mergers & Acquisitions Activity

## **4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)**

### 4.1 United States VS China: AI Building Automation Revenue Comparison (by Headquarter Location)

#### 4.1.1 United States VS China: AI Building Automation Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)

#### 4.1.2 United States VS China: AI Building Automation Revenue Market Share Comparison (2021 & 2025 & 2032)

### 4.2 United States Based Companies VS China Based Companies: AI Building Automation Consumption Value Comparison

#### 4.2.1 United States VS China: AI Building Automation Consumption Value Comparison (2021 & 2025 & 2032)

#### 4.2.2 United States VS China: AI Building Automation Consumption Value Market Share Comparison (2021 & 2025 & 2032)

### 4.3 United States Based AI Building Automation Companies and Market Share, 2021-2026

#### 4.3.1 United States Based AI Building Automation Companies, Headquarters (States, Country)

#### 4.3.2 United States Based Companies AI Building Automation Revenue, (2021-2026)

### 4.4 China Based Companies AI Building Automation Revenue and Market Share, 2021-2026

#### 4.4.1 China Based AI Building Automation Companies, Company Headquarters (Province, Country)

- 4.4.2 China Based Companies AI Building Automation Revenue, (2021-2026)
- 4.5 Rest of World Based AI Building Automation Companies and Market Share, 2021-2026
  - 4.5.1 Rest of World Based AI Building Automation Companies, Headquarters (Province, Country)
  - 4.5.2 Rest of World Based Companies AI Building Automation Revenue (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

- 5.1 World AI Building Automation Market Size Overview by Type: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Type
  - 5.2.1 AI Environmental Perception
  - 5.2.2 AI Predictive Maintenance
  - 5.2.3 AI Behavior Recognition and Security
  - 5.2.4 AI Space Management
  - 5.2.5 Others
- 5.3 Market Segment by Type
  - 5.3.1 World AI Building Automation Market Size by Type (2021-2026)
  - 5.3.2 World AI Building Automation Market Size by Type (2027-2032)
  - 5.3.3 World AI Building Automation Market Size Market Share by Type (2027-2032)

## **6 MARKET ANALYSIS BY DEPLOYMENT**

- 6.1 World AI Building Automation Market Size Overview by Deployment: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Deployment
  - 6.2.1 Cloud AI
  - 6.2.2 Edge AI
  - 6.2.3 Device AI
- 6.3 Market Segment by Deployment
  - 6.3.1 World AI Building Automation Market Size by Deployment (2021-2026)
  - 6.3.2 World AI Building Automation Market Size by Deployment (2027-2032)
  - 6.3.3 World AI Building Automation Market Size Market Share by Deployment (2027-2032)

## **7 MARKET ANALYSIS BY TECHNOLOGY**

- 7.1 World AI Building Automation Market Size Overview by Technology: 2021 VS 2025

VS 2032

7.2 Segment Introduction by Technology

7.2.1 AI based on Model Predictive Control (MPC)

7.2.2 AI based on Reinforcement Learning

7.2.3 AI based on Occupancy-based Dynamic Regulation

7.3 Market Segment by Technology

7.3.1 World AI Building Automation Market Size by Technology (2021-2026)

7.3.2 World AI Building Automation Market Size by Technology (2027-2032)

7.3.3 World AI Building Automation Market Size Market Share by Technology (2027-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World AI Building Automation Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Commercial and Office Building

8.2.2 Industrial Building

8.2.3 Residential Building

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World AI Building Automation Market Size by Application (2021-2026)

8.3.2 World AI Building Automation Market Size by Application (2027-2032)

8.3.3 World AI Building Automation Market Size Market Share by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 BrainBox AI

9.1.1 BrainBox AI Details

9.1.2 BrainBox AI Major Business

9.1.3 BrainBox AI AI Building Automation Product and Services

9.1.4 BrainBox AI AI Building Automation Revenue, Gross Margin and Market Share (2021-2026)

9.1.5 BrainBox AI Recent Developments/Updates

9.1.6 BrainBox AI Competitive Strengths & Weaknesses

9.2 NeuronCloud

9.2.1 NeuronCloud Details

9.2.2 NeuronCloud Major Business

- 9.2.3 NeuronCloud AI Building Automation Product and Services
- 9.2.4 NeuronCloud AI Building Automation Revenue, Gross Margin and Market Share (2021-2026)
- 9.2.5 NeuronCloud Recent Developments/Updates
- 9.2.6 NeuronCloud Competitive Strengths & Weaknesses
- 9.3 Siemens
  - 9.3.1 Siemens Details
  - 9.3.2 Siemens Major Business
  - 9.3.3 Siemens AI Building Automation Product and Services
  - 9.3.4 Siemens AI Building Automation Revenue, Gross Margin and Market Share (2021-2026)
  - 9.3.5 Siemens Recent Developments/Updates
  - 9.3.6 Siemens Competitive Strengths & Weaknesses
- 9.4 Schneider Electric
  - 9.4.1 Schneider Electric Details
  - 9.4.2 Schneider Electric Major Business
  - 9.4.3 Schneider Electric AI Building Automation Product and Services
  - 9.4.4 Schneider Electric AI Building Automation Revenue, Gross Margin and Market Share (2021-2026)
  - 9.4.5 Schneider Electric Recent Developments/Updates
  - 9.4.6 Schneider Electric Competitive Strengths & Weaknesses
- 9.5 Honeywell
  - 9.5.1 Honeywell Details
  - 9.5.2 Honeywell Major Business
  - 9.5.3 Honeywell AI Building Automation Product and Services
  - 9.5.4 Honeywell AI Building Automation Revenue, Gross Margin and Market Share (2021-2026)
  - 9.5.5 Honeywell Recent Developments/Updates
  - 9.5.6 Honeywell Competitive Strengths & Weaknesses
- 9.6 Johnson Controls
  - 9.6.1 Johnson Controls Details
  - 9.6.2 Johnson Controls Major Business
  - 9.6.3 Johnson Controls AI Building Automation Product and Services
  - 9.6.4 Johnson Controls AI Building Automation Revenue, Gross Margin and Market Share (2021-2026)
  - 9.6.5 Johnson Controls Recent Developments/Updates
  - 9.6.6 Johnson Controls Competitive Strengths & Weaknesses
- 9.7 Assemblin
  - 9.7.1 Assemblin Details

- 9.7.2 Assemblin Major Business
- 9.7.3 Assemblin AI Building Automation Product and Services
- 9.7.4 Assemblin AI Building Automation Revenue, Gross Margin and Market Share (2021-2026)
- 9.7.5 Assemblin Recent Developments/Updates
- 9.7.6 Assemblin Competitive Strengths & Weaknesses
- 9.8 Trane Technologies
  - 9.8.1 Trane Technologies Details
  - 9.8.2 Trane Technologies Major Business
  - 9.8.3 Trane Technologies AI Building Automation Product and Services
  - 9.8.4 Trane Technologies AI Building Automation Revenue, Gross Margin and Market Share (2021-2026)
  - 9.8.5 Trane Technologies Recent Developments/Updates
  - 9.8.6 Trane Technologies Competitive Strengths & Weaknesses
- 9.9 Optimal Controls AI
  - 9.9.1 Optimal Controls AI Details
  - 9.9.2 Optimal Controls AI Major Business
  - 9.9.3 Optimal Controls AI AI Building Automation Product and Services
  - 9.9.4 Optimal Controls AI AI Building Automation Revenue, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Optimal Controls AI Recent Developments/Updates
  - 9.9.6 Optimal Controls AI Competitive Strengths & Weaknesses
- 9.10 Delta
  - 9.10.1 Delta Details
  - 9.10.2 Delta Major Business
  - 9.10.3 Delta AI Building Automation Product and Services
  - 9.10.4 Delta AI Building Automation Revenue, Gross Margin and Market Share (2021-2026)
  - 9.10.5 Delta Recent Developments/Updates
  - 9.10.6 Delta Competitive Strengths & Weaknesses
- 9.11 E Tech Group
  - 9.11.1 E Tech Group Details
  - 9.11.2 E Tech Group Major Business
  - 9.11.3 E Tech Group AI Building Automation Product and Services
  - 9.11.4 E Tech Group AI Building Automation Revenue, Gross Margin and Market Share (2021-2026)
  - 9.11.5 E Tech Group Recent Developments/Updates
  - 9.11.6 E Tech Group Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 AI Building Automation Industry Chain
- 10.2 AI Building Automation Upstream Analysis
- 10.3 AI Building Automation Midstream Analysis
- 10.4 AI Building Automation Downstream Analysis

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World AI Building Automation Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Table 2. World AI Building Automation Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)

Table 3. World AI Building Automation Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)

Table 4. World AI Building Automation Revenue Market Share by Region (2021-2026), (by Headquarter Location)

Table 5. World AI Building Automation Revenue Market Share by Region (2027-2032), (by Headquarter Location)

Table 6. Major Market Trends

Table 7. World AI Building Automation Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)

Table 8. World AI Building Automation Consumption Value by Region (2021-2026) & (USD Million)

Table 9. World AI Building Automation Consumption Value Forecast by Region (2027-2032) & (USD Million)

Table 10. World AI Building Automation Revenue by Player (2021-2026) & (USD Million)

Table 11. Revenue Market Share of Key AI Building Automation Players in 2025

Table 12. World AI Building Automation Industry Rank of Major Player, Based on Revenue in 2025

Table 13. Global AI Building Automation Company Evaluation Quadrant

Table 14. Head Office of Key AI Building Automation Players

Table 15. AI Building Automation Market: Company Product Type Footprint

Table 16. AI Building Automation Market: Company Product Application Footprint

Table 17. AI Building Automation Mergers & Acquisitions Activity

Table 18. United States VS China AI Building Automation Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 19. United States VS China AI Building Automation Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 20. United States Based AI Building Automation Companies, Headquarters (States, Country)

Table 21. United States Based Companies AI Building Automation Revenue, (2021-2026) & (USD Million)

Table 22. United States Based Companies AI Building Automation Revenue Market Share (2021-2026)

Table 23. China Based AI Building Automation Companies, Headquarters (Province, Country)

Table 24. China Based Companies AI Building Automation Revenue, (2021-2026) & (USD Million)

Table 25. China Based Companies AI Building Automation Revenue Market Share (2021-2026)

Table 26. Rest of World Based AI Building Automation Companies, Headquarters (Province, Country)

Table 27. Rest of World Based Companies AI Building Automation Revenue (2021-2026) & (USD Million)

Table 28. Rest of World Based Companies AI Building Automation Revenue Market Share (2021-2026)

Table 29. World AI Building Automation Market Size by Type, (USD Million), 2021 & 2025 & 2032

Table 30. World AI Building Automation Market Size Value by Type (2021-2026) & (USD Million)

Table 31. World AI Building Automation Market Size by Type (2027-2032) & (USD Million)

Table 32. World AI Building Automation Market Size by Deployment, (USD Million), 2021 & 2025 & 2032

Table 33. World AI Building Automation Market Size Value by Deployment (2021-2026) & (USD Million)

Table 34. World AI Building Automation Market Size by Deployment (2027-2032) & (USD Million)

Table 35. World AI Building Automation Market Size by Technology, (USD Million), 2021 & 2025 & 2032

Table 36. World AI Building Automation Market Size Value by Technology (2021-2026) & (USD Million)

Table 37. World AI Building Automation Market Size by Technology (2027-2032) & (USD Million)

Table 38. World AI Building Automation Market Size by Application, (USD Million), 2021 & 2025 & 2032

Table 39. World AI Building Automation Market Size by Application (2021-2026) & (USD Million)

Table 40. World AI Building Automation Market Size by Application (2027-2032) & (USD Million)

Table 41. BrainBox AI Basic Information, Manufacturing Base and Competitors

Table 42. BrainBox AI Major Business

Table 43. BrainBox AI AI Building Automation Product and Services

Table 44. BrainBox AI AI Building Automation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 45. BrainBox AI Recent Developments/Updates

Table 46. BrainBox AI Competitive Strengths & Weaknesses

Table 47. NeuronCloud Basic Information, Manufacturing Base and Competitors

Table 48. NeuronCloud Major Business

Table 49. NeuronCloud AI Building Automation Product and Services

Table 50. NeuronCloud AI Building Automation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 51. NeuronCloud Recent Developments/Updates

Table 52. NeuronCloud Competitive Strengths & Weaknesses

Table 53. Siemens Basic Information, Manufacturing Base and Competitors

Table 54. Siemens Major Business

Table 55. Siemens AI Building Automation Product and Services

Table 56. Siemens AI Building Automation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 57. Siemens Recent Developments/Updates

Table 58. Siemens Competitive Strengths & Weaknesses

Table 59. Schneider Electric Basic Information, Manufacturing Base and Competitors

Table 60. Schneider Electric Major Business

Table 61. Schneider Electric AI Building Automation Product and Services

Table 62. Schneider Electric AI Building Automation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 63. Schneider Electric Recent Developments/Updates

Table 64. Schneider Electric Competitive Strengths & Weaknesses

Table 65. Honeywell Basic Information, Manufacturing Base and Competitors

Table 66. Honeywell Major Business

Table 67. Honeywell AI Building Automation Product and Services

Table 68. Honeywell AI Building Automation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 69. Honeywell Recent Developments/Updates

Table 70. Honeywell Competitive Strengths & Weaknesses

Table 71. Johnson Controls Basic Information, Manufacturing Base and Competitors

Table 72. Johnson Controls Major Business

Table 73. Johnson Controls AI Building Automation Product and Services

Table 74. Johnson Controls AI Building Automation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

- Table 75. Johnson Controls Recent Developments/Updates
- Table 76. Johnson Controls Competitive Strengths & Weaknesses
- Table 77. Assemblin Basic Information, Manufacturing Base and Competitors
- Table 78. Assemblin Major Business
- Table 79. Assemblin AI Building Automation Product and Services
- Table 80. Assemblin AI Building Automation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 81. Assemblin Recent Developments/Updates
- Table 82. Assemblin Competitive Strengths & Weaknesses
- Table 83. Trane Technologies Basic Information, Manufacturing Base and Competitors
- Table 84. Trane Technologies Major Business
- Table 85. Trane Technologies AI Building Automation Product and Services
- Table 86. Trane Technologies AI Building Automation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 87. Trane Technologies Recent Developments/Updates
- Table 88. Trane Technologies Competitive Strengths & Weaknesses
- Table 89. Optimal Controls AI Basic Information, Manufacturing Base and Competitors
- Table 90. Optimal Controls AI Major Business
- Table 91. Optimal Controls AI AI Building Automation Product and Services
- Table 92. Optimal Controls AI AI Building Automation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 93. Optimal Controls AI Recent Developments/Updates
- Table 94. Optimal Controls AI Competitive Strengths & Weaknesses
- Table 95. Delta Basic Information, Manufacturing Base and Competitors
- Table 96. Delta Major Business
- Table 97. Delta AI Building Automation Product and Services
- Table 98. Delta AI Building Automation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 99. Delta Recent Developments/Updates
- Table 100. Delta Competitive Strengths & Weaknesses
- Table 101. E Tech Group Basic Information, Manufacturing Base and Competitors
- Table 102. E Tech Group Major Business
- Table 103. E Tech Group AI Building Automation Product and Services
- Table 104. E Tech Group AI Building Automation Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 105. E Tech Group Recent Developments/Updates
- Table 106. E Tech Group Competitive Strengths & Weaknesses
- Table 107. Global Key Players of AI Building Automation Upstream (Raw Materials)
- Table 108. Global AI Building Automation Typical Customers



## List Of Figures

### LIST OF FIGURES

Figure 1. AI Building Automation Picture

Figure 2. World AI Building Automation Total Revenue: 2021 & 2025 & 2032, (USD Million)

Figure 3. World AI Building Automation Total Revenue (2021-2032) & (USD Million)

Figure 4. World AI Building Automation Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Figure 5. World AI Building Automation Revenue Market Share by Region (2021-2032), (by Headquarter Location)

Figure 6. United States Based Company AI Building Automation Revenue (2021-2032) & (USD Million)

Figure 7. China Based Company AI Building Automation Revenue (2021-2032) & (USD Million)

Figure 8. Europe Based Company AI Building Automation Revenue (2021-2032) & (USD Million)

Figure 9. Japan Based Company AI Building Automation Revenue (2021-2032) & (USD Million)

Figure 10. South Korea Based Company AI Building Automation Revenue (2021-2032) & (USD Million)

Figure 11. ASEAN Based Company AI Building Automation Revenue (2021-2032) & (USD Million)

Figure 12. India Based Company AI Building Automation Revenue (2021-2032) & (USD Million)

Figure 13. AI Building Automation Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World AI Building Automation Consumption Value (2021-2032) & (USD Million)

Figure 16. World AI Building Automation Consumption Value Market Share by Region (2021-2032)

Figure 17. United States AI Building Automation Consumption Value (2021-2032) & (USD Million)

Figure 18. China AI Building Automation Consumption Value (2021-2032) & (USD Million)

Figure 19. Europe AI Building Automation Consumption Value (2021-2032) & (USD Million)

Figure 20. Japan AI Building Automation Consumption Value (2021-2032) & (USD Million)

Million)

Figure 21. South Korea AI Building Automation Consumption Value (2021-2032) & (USD Million)

Figure 22. ASEAN AI Building Automation Consumption Value (2021-2032) & (USD Million)

Figure 23. India AI Building Automation Consumption Value (2021-2032) & (USD Million)

Figure 24. Producer Shipments of AI Building Automation by Player Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for AI Building Automation Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for AI Building Automation Markets in 2025

Figure 27. United States VS China: AI Building Automation Revenue Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: AI Building Automation Consumption Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. World AI Building Automation Market Size by Type, (USD Million), 2021 & 2025 & 2032

Figure 30. World AI Building Automation Market Size Market Share by Type in 2025

Figure 31. AI Environmental Perception

Figure 32. AI Predictive Maintenance

Figure 33. AI Behavior Recognition and Security

Figure 34. AI Space Management

Figure 35. Others

Figure 36. World AI Building Automation Market Size Market Share by Type (2021-2032)

Figure 37. World AI Building Automation Market Size by Deployment, (USD Million), 2021 & 2025 & 2032

Figure 38. World AI Building Automation Market Size Market Share by Deployment in 2025

Figure 39. Cloud AI

Figure 40. Edge AI

Figure 41. Device AI

Figure 42. World AI Building Automation Market Size Market Share by Deployment (2021-2032)

Figure 43. World AI Building Automation Market Size by Technology, (USD Million), 2021 & 2025 & 2032

Figure 44. World AI Building Automation Market Size Market Share by Technology in

2025

Figure 45. AI based on Model Predictive Control (MPC)

Figure 46. AI based on Reinforcement Learning

Figure 47. AI based on Occupancy-based Dynamic Regulation

Figure 48. World AI Building Automation Market Size Market Share by Technology (2021-2032)

Figure 49. World AI Building Automation Market Size by Application, (USD Million), 2021 & 2025 & 2032

Figure 50. World AI Building Automation Market Size Market Share by Application in 2025

Figure 51. Commercial and Office Building

Figure 52. Industrial Building

Figure 53. Residential Building

Figure 54. Others

Figure 55. World AI Building Automation Market Size Market Share by Application (2021-2032)

Figure 56. AI Building Automation Industrial Chain

Figure 57. Methodology

Figure 58. Research Process and Data Source

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