

South Korea Modular Data Center Market Size, Share, Trends and Forecast by Component, Data Center Size, Application, Industry Vertical, and Region, 2026-2034

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Abstracts

The South Korea modular data center market size reached USD 701.1 Million in 2025. Looking forward, IMARC Group expects the market to reach USD 1,977.0 Million by 2034, exhibiting a growth rate (CAGR) of 11.84% during 2026-2034. The market is primarily driven by the escalating demand for cloud services, the widespread integration of 5G technology, and the burgeoning need for efficient edge computing solutions. Government initiatives promoting digital transformation and decentralization further propel the South Korea modular data center market share.

SOUTH KOREA MODULAR DATA CENTER MARKET TRENDS:

Decentralization and Edge Computing Adoption

The South Korean government is actively promoting the decentralization of data centers from congested metropolitan areas like Seoul to regional locations. For instance, in July 2025, South Korea invested KRW27.3 billion (\$19.9M) to build regional micro data centers using domestic AI chips, aiming to deliver low-latency AI services to SMEs, hospitals, and public institutions. This strategic shift aims to address power supply challenges and foster balanced regional development. Concurrently, the proliferation of IoT devices, autonomous vehicles, and smart city initiatives is driving a significant demand for edge computing, which requires data processing closer to the source to minimize latency. Modular data centers are ideally suited for these decentralized and edge deployments due to their rapid deployability, scalability, and ability to operate efficiently in diverse environments, thereby contributing substantially to the South Korea modular data center market growth.

Integration with AI and High-Performance Computing

The rapid advancements in Artificial Intelligence (AI) and the increasing demand for high-performance computing (HPC) capabilities are profoundly impacting the South Korea Modular Data Center market. AI and big data analytics workloads require immense processing power and low-latency infrastructure, which traditional data centers may struggle to provide efficiently. Modular data centers, designed for high-density rack configurations and capable of supporting advanced cooling systems, are becoming the preferred choice for deploying AI-optimized infrastructure. This integration of cutting-edge technologies and the need for specialized computing environments are key contributors to the South Korea modular data center market growth. For instance, Alibaba Cloud is set to launch its second data centre in South Korea by June 2025 to meet rising demand for AI infrastructure. This expansion supports local industries including e-commerce, gaming, and logistics. The Seoul-based facility will offer low-latency AI services and provide an alternative to US providers like AWS.

SOUTH KOREA MODULAR DATA CENTER MARKET SEGMENTATION:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the country/regional level for 2026-2034. Our report has categorized the market based on component, data center size, application, and industry vertical.

Component Insights:

Solutions

All-in-One Module

Individual Module

Services

Design and Consulting

Integration and Deployment

Support and Maintenance

The report has provided a detailed breakup and analysis of the market based on the component. This includes solutions (all-in-one module and individual module) and services (design and consulting, integration and deployment, and support and maintenance).

Data Center Size Insights:

Small and Medium-sized Data Centers

Large Data Centers

The report has provided a detailed breakup and analysis of the market based on the data center size. This includes small and medium-sized data centers and large data centers.

Application Insights:

Disaster Backup

High Performance/Edge Computing

Data Center Expansion

Starter Data Centers

The report has provided a detailed breakup and analysis of the market based on the application. This includes disaster backup, high performance/edge computing, data center expansion, and starter data centers.

Industry Vertical Insights:

BFSI

IT and Telecom

Retail and Manufacturing

Healthcare

Energy

Media and Entertainment

Government and Defense

Others

The report has provided a detailed breakup and analysis of the market based on the industry vertical. This includes BFSI, IT and telecom, retail and manufacturing, healthcare, energy, media and entertainment, government and defense, and others.

Regional Insights:

Seoul Capital Area

Yeongnam (Southeastern Region)

Honam (Southwestern Region)

Hoseo (Central Region)

Others

The report has also provided a comprehensive analysis of all the major regional markets, which include Seoul Capital Area, Yeongnam (Southeastern Region), Honam (Southwestern Region), Hoseo (Central Region), and others.

COMPETITIVE LANDSCAPE:

The market research report has also provided a comprehensive analysis of the competitive landscape. Competitive analysis such as market structure, key player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided.

KEY QUESTIONS ANSWERED IN THIS REPORT

How has the South Korea modular data center market performed so far and how will it perform in the coming years?

What is the breakup of the South Korea modular data center market on the basis of component?

What is the breakup of the South Korea modular data center market on the basis of data center size?

What is the breakup of the South Korea modular data center market on the basis of application?

What is the breakup of the South Korea modular data center market on the basis of industry vertical?

What is the breakup of the South Korea modular data center market on the basis of region?

What are the various stages in the value chain of the South Korea modular data center market?

What are the key driving factors and challenges in the South Korea modular data center market?

What is the structure of the South Korea modular data center market and who are the key players?

What is the degree of competition in the South Korea modular data center market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 SOUTH KOREA MODULAR DATA CENTER MARKET - INTRODUCTION

- 4.1 Overview
- 4.2 Market Dynamics
- 4.3 Industry Trends
- 4.4 Competitive Intelligence

5 SOUTH KOREA MODULAR DATA CENTER MARKET LANDSCAPE

- 5.1 Historical and Current Market Trends (?2020-2025?)
- 5.2 Market Forecast (?2026-2034?)

6 SOUTH KOREA MODULAR DATA CENTER MARKET - BREAKUP BY COMPONENT

- 6.1 Solutions
 - 6.1.1 Overview
 - 6.1.2 Historical and Current Market Trends (?2020-2025?)
 - 6.1.3 Market Segmentation
 - 6.1.3.1 All-in-One Module
 - 6.1.3.2 Individual Module

6.1.4 Market Forecast (?2026-2034?)

6.2 Services

6.2.1 Overview

6.2.2 Historical and Current Market Trends (?2020-2025?)

6.2.3 Market Segmentation

6.2.3.1 Design and Consulting

6.2.3.2 Integration and Deployment

6.2.3.3 Support and Maintenance

6.2.4 Market Forecast (?2026-2034?)

7 SOUTH KOREA MODULAR DATA CENTER MARKET - BREAKUP BY DATA CENTER SIZE

7.1 Small and Medium-sized Data Centers

7.1.1 Overview

7.1.2 Historical and Current Market Trends (?2020-2025?)

7.1.3 Market Forecast (?2026-2034?)

7.2 Large Data Centers

7.2.1 Overview

7.2.2 Historical and Current Market Trends (?2020-2025?)

7.2.3 Market Forecast (?2026-2034?)

8 SOUTH KOREA MODULAR DATA CENTER MARKET - BREAKUP BY APPLICATION

8.1 Disaster Backup

8.1.1 Overview

8.1.2 Historical and Current Market Trends (?2020-2025?)

8.1.3 Market Forecast (?2026-2034?)

8.2 High Performance/Edge Computing

8.2.1 Overview

8.2.2 Historical and Current Market Trends (?2020-2025?)

8.2.3 Market Forecast (?2026-2034?)

8.3 Data Center Expansion

8.3.1 Overview

8.3.2 Historical and Current Market Trends (?2020-2025?)

8.3.3 Market Forecast (?2026-2034?)

8.4 Starter Data Centers

8.4.1 Overview

8.4.2 Historical and Current Market Trends (?2020-2025?)

8.4.3 Market Forecast (?2026-2034?)

9 SOUTH KOREA MODULAR DATA CENTER MARKET - BREAKUP BY INDUSTRY VERTICAL

9.1 BFSI

9.1.1 Overview

9.1.2 Historical and Current Market Trends (?2020-2025?)

9.1.3 Market Forecast (?2026-2034?)

9.2 IT and Telecom

9.2.1 Overview

9.2.2 Historical and Current Market Trends (?2020-2025?)

9.2.3 Market Forecast (?2026-2034?)

9.3 Retail and Manufacturing

9.3.1 Overview

9.3.2 Historical and Current Market Trends (?2020-2025?)

9.3.3 Market Forecast (?2026-2034?)

9.4 Healthcare

9.4.1 Overview

9.4.2 Historical and Current Market Trends (?2020-2025?)

9.4.3 Market Forecast (?2026-2034?)

9.5 Energy

9.5.1 Overview

9.5.2 Historical and Current Market Trends (?2020-2025?)

9.5.3 Market Forecast (?2026-2034?)

9.6 Media and Entertainment

9.6.1 Overview

9.6.2 Historical and Current Market Trends (?2020-2025?)

9.6.3 Market Forecast (?2026-2034?)

9.7 Government and Defense

9.7.1 Overview

9.7.2 Historical and Current Market Trends (?2020-2025?)

9.7.3 Market Forecast (?2026-2034?)

9.8 Others

9.8.1 Historical and Current Market Trends (?2020-2025?)

9.8.2 Market Forecast (?2026-2034?)

10 SOUTH KOREA MODULAR DATA CENTER MARKET – BREAKUP BY REGION

10.1 Seoul Capital Area

10.1.1 Overview

10.1.2 Historical and Current Market Trends (?2020-2025?)

10.1.3 Market Breakup by Component

10.1.4 Market Breakup by Data Center Size

10.1.5 Market Breakup by Application

10.1.6 Market Breakup by Industry Vertical

10.1.7 Key Players

10.1.8 Market Forecast (?2026-2034?)

10.2 Yeongnam (Southeastern Region)

10.2.1 Overview

10.2.2 Historical and Current Market Trends (?2020-2025?)

10.2.3 Market Breakup by Component

10.2.4 Market Breakup by Data Center Size

10.2.5 Market Breakup by Application

10.2.6 Market Breakup by Industry Vertical

10.2.7 Key Players

10.2.8 Market Forecast (?2026-2034?)

10.3 Honam (Southwestern Region)

10.3.1 Overview

10.3.2 Historical and Current Market Trends (?2020-2025?)

10.3.3 Market Breakup by Component

10.3.4 Market Breakup by Data Center Size

10.3.5 Market Breakup by Application

10.3.6 Market Breakup by Industry Vertical

10.3.7 Key Players

10.3.8 Market Forecast (?2026-2034?)

10.4 Hoseo (Central Region)

10.4.1 Overview

10.4.2 Historical and Current Market Trends (?2020-2025?)

10.4.3 Market Breakup by Component

10.4.4 Market Breakup by Data Center Size

10.4.5 Market Breakup by Application

10.4.6 Market Breakup by Industry Vertical

10.4.7 Key Players

10.4.8 Market Forecast (?2026-2034?)

10.5 Others

10.5.1 Historical and Current Market Trends (?2020-2025?)

10.5.2 Market Forecast (?2026-2034?)

11 SOUTH KOREA MODULAR DATA CENTER MARKET – COMPETITIVE LANDSCAPE

11.1 Overview

11.2 Market Structure

11.3 Market Player Positioning

11.4 Top Winning Strategies

11.5 Competitive Dashboard

11.6 Company Evaluation Quadrant

12 PROFILES OF KEY PLAYERS

12.1 Company A

12.1.1 Business Overview

12.1.2 Services Offered

12.1.3 Business Strategies

12.1.4 SWOT Analysis

12.1.5 Major News and Events

12.2 Company B

12.2.1 Business Overview

12.2.2 Services Offered

12.2.3 Business Strategies

12.2.4 SWOT Analysis

12.2.5 Major News and Events

12.3 Company C

12.3.1 Business Overview

12.3.2 Services Offered

12.3.3 Business Strategies

12.3.4 SWOT Analysis

12.3.5 Major News and Events

12.4 Company D

12.4.1 Business Overview

12.4.2 Services Offered

12.4.3 Business Strategies

12.4.4 SWOT Analysis

12.4.5 Major News and Events

12.5 Company E

- 12.5.1 Business Overview
- 12.5.2 Services Offered
- 12.5.3 Business Strategies
- 12.5.4 SWOT Analysis
- 12.5.5 Major News and Events

13 SOUTH KOREA MODULAR DATA CENTER MARKET - INDUSTRY ANALYSIS

- 13.1 Drivers, Restraints, and Opportunities
 - 13.1.1 Overview
 - 13.1.2 Drivers
 - 13.1.3 Restraints
 - 13.1.4 Opportunities
- 13.2 Porters Five Forces Analysis
 - 13.2.1 Overview
 - 13.2.2 Bargaining Power of Buyers
 - 13.2.3 Bargaining Power of Suppliers
 - 13.2.4 Degree of Competition
 - 13.2.5 Threat of New Entrants
 - 13.2.6 Threat of Substitutes
- 13.3 Value Chain Analysis

14 APPENDIX

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