

# Global Real-Time Digital Simulation System?RTDS? Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Real-Time Digital Simulation System?RTDS? market size is expected to reach \$ 1046 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

To address the challenges of traditional offline power system simulations?the inability to accurately simulate real-time dynamic processes and the inability to perform closed-loop testing with real physical devices?real-time digital simulation systems have emerged. Since breakthroughs and applications in this technology at the end of the 20th century, the field of power system simulation and testing has undergone profound changes. Currently, real-time digital simulation systems have evolved into key technologies integrating high-performance real-time computing platforms, accurate power component model libraries, and rich physical interfaces. They are widely used in power equipment R&D and testing, power grid operation characteristic analysis, protection and control strategy verification, and professional training, significantly improving system safety and reliability, shortening R&D cycles, and reducing actual testing risks.

As power systems continue to expand in size and complexity, the demand for simulation technology continues to grow. As a high-performance real-time digital simulation system, RTDS plays an important role in the fields of power system planning, design, operation and control. Therefore, the RTDS market size has shown a steady growth trend in recent years. In addition, RTDS was initially mainly used for power system simulation, but in recent years its application fields have been continuously expanded. For example, RTDS has been successfully used in power electronics, new energy, smart grid and other fields. In general, real-time digital simulation system (RTDS) has broad market prospects and application prospects in the field of power system

simulation.

This report studies the global Real-Time Digital Simulation System?RTDS? demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Real-Time Digital Simulation System?RTDS?, 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 Real-Time Digital Simulation System?RTDS? that contribute to its increasing demand across many markets.

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

Global Real-Time Digital Simulation System?RTDS? total market, 2021-2032, (USD Million)

Global Real-Time Digital Simulation System?RTDS? total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Real-Time Digital Simulation System?RTDS? total market, key domestic companies, and share, (USD Million)

Global Real-Time Digital Simulation System?RTDS? revenue by player, revenue and market share 2021-2026, (USD Million)

Global Real-Time Digital Simulation System?RTDS? total market by Type, CAGR, 2021-2032, (USD Million)

Global Real-Time Digital Simulation System?RTDS? total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Real-Time Digital Simulation System?RTDS? 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 RTDS Technologies, OPAL-RT, Typhoon HIL, dSPACE, Speedgoat, Emerson, Plexim, imperix, Keysight, ETAS, 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 Real-Time Digital Simulation System?RTDS? 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 Real-Time Digital Simulation System?RTDS? Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

**Global Real-Time Digital Simulation System?RTDS? Market, Segmentation by Type:**

Hardware-in-the-Loop Simulation

Software-in-the-Loop Simulation

Hybrid Simulation

**Global Real-Time Digital Simulation System?RTDS? Market, Segmentation by Hardware Architecture:**

Parallel Computer Systems

## Distributed Scaling Systems

Global Real-Time Digital Simulation System?RTDS? Market, Segmentation by Verification Methods:

Real-time Verification

Accuracy Verification

Global Real-Time Digital Simulation System?RTDS? Market, Segmentation by Application:

New Energy Power Generation

Power Equipment Manufacturing

Power Electronics

Industrial Manufacturing

Other

Companies Profiled:

RTDS Technologies

OPAL-RT

Typhoon HIL

dSPACE

Speedgoat

Emerson

Plexim

imperix

Keysight

ETAS

Yuankuan Energy Technology

### Key Questions Answered

1. How big is the global Real-Time Digital Simulation System?RTDS? market?
2. What is the demand of the global Real-Time Digital Simulation System?RTDS? market?
3. What is the year over year growth of the global Real-Time Digital Simulation System?RTDS? market?
4. What is the total value of the global Real-Time Digital Simulation System?RTDS? market?
5. Who are the Major Players in the global Real-Time Digital Simulation System?RTDS? market?
6. What are the growth factors driving the market demand?

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