

Global Phasor Data Concentrator Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Phasor Data Concentrator market size is expected to reach \$ 356 million by 2032, rising at a market growth of 7.1% CAGR during the forecast period (2026-2032).

A phasor data concentrator is a specialized device used in power systems to collect, align, and manage synchronized phasor data from multiple phasor measurement units. The device aggregates timestamped data streams and synchronizes data via GPS or a high-precision clock signal. The system processes the phasor data and sends it to the dispatch center for real-time grid monitoring and operational analysis. Phasor data concentrators are a crucial component of wide-area monitoring systems, supporting grid stability analysis, fault detection, and smart grid operation management. The phasor data concentrator industry chain includes upstream electronic components, communication modules, time synchronization systems, and embedded processors. The midstream encompasses hardware manufacturing, firmware development, system integration, and software platform configuration. Downstream applications include grid operators, transmission monitoring centers, smart grid projects, and energy management platforms. Supporting services include equipment installation, system calibration, data management, network security protection, and maintenance services to ensure the stable and secure operation of the grid monitoring system. In 2025, the global production of phasor data concentrators was approximately 11,944 units, with an average price of approximately US\$18,000 per unit. The gross profit margins of major companies in the industry ranged from 35% to 55%. In 2025, the global production capacity of phasor data concentrators will be approximately 15,925 units.

The Phasor Data Concentrator market is driven by the modernization of power grids and the rapid deployment of smart grid technologies. Increasing demand for real-time monitoring, grid stability analysis, and integration of renewable energy sources is

accelerating the adoption of wide-area monitoring systems. Technological advancements focus on high-speed data processing, improved synchronization accuracy, enhanced cybersecurity, and cloud-based analytics integration. Utilities are investing in advanced monitoring infrastructure to improve reliability, prevent large-scale blackouts, and optimize power flow management. Market competition centers on system reliability, data processing performance, interoperability with grid infrastructure, and cybersecurity capabilities. As electricity networks become more complex and digitally connected, demand for phasor data concentrators is expected to grow steadily in global smart grid development.

This report studies the global Phasor Data Concentrator production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Phasor Data Concentrator 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 Phasor Data Concentrator that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Phasor Data Concentrator total production and demand, 2021-2032, (K Units)

Global Phasor Data Concentrator total production value, 2021-2032, (USD Million)

Global Phasor Data Concentrator production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Phasor Data Concentrator consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Phasor Data Concentrator domestic production, consumption, key domestic manufacturers and share

Global Phasor Data Concentrator production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Phasor Data Concentrator production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Phasor Data Concentrator production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Phasor Data Concentrator market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NR Electric, Kalkitech, Selinc, Valiant

Communications, Electric Power Group, Hitachi Energy, 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 Phasor Data Concentrator market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, 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 Phasor Data Concentrator Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Phasor Data Concentrator Market, Segmentation by Type:

Substation-Level PDC

Regional PDC

Centralized PDC

Global Phasor Data Concentrator Market, Segmentation by Function:

Real-Time Data Concentration

Time Synchronization & Alignment

Data Archiving

Wide-Area Monitoring Interface

Global Phasor Data Concentrator Market, Segmentation by Architecture:

Hardware-Based PDC

Software-Based PDC

Cloud-Based PDC

Global Phasor Data Concentrator Market, Segmentation by Application:

Substations

Power Plants

Companies Profiled:

NR Electric

Kalkitech

Selinc

Valiant Communications

Electric Power Group

Hitachi Energy

Key Questions Answered:

1. How big is the global Phasor Data Concentrator market?
2. What is the demand of the global Phasor Data Concentrator market?
3. What is the year over year growth of the global Phasor Data Concentrator market?
4. What is the production and production value of the global Phasor Data Concentrator market?
5. Who are the key producers in the global Phasor Data Concentrator market?
6. What are the growth factors driving the market demand?

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