

# Global Phasor Data Concentrator Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Phasor Data Concentrator market size was valued at US\$ 221 million in 2025 and is forecast to a readjusted size of US\$ 356 million by 2032 with a CAGR of 7.1% during review period.

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 is a detailed and comprehensive analysis for global Phasor Data Concentrator market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Phasor Data Concentrator market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Phasor Data Concentrator market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Phasor Data Concentrator market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Phasor Data Concentrator market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Phasor Data Concentrator

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Phasor Data Concentrator market based on the following parameters - company overview, sales quantity, revenue, 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.

## **Market Segmentation**

Phasor Data Concentrator market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Substation-Level PDC

Regional PDC

Centralized PDC

### Market segment by Function

Real-Time Data Concentration

Time Synchronization & Alignment

Data Archiving

Wide-Area Monitoring Interface

Market segment by Architecture

Hardware-Based PDC

Software-Based PDC

Cloud-Based PDC

Market segment by Application

Substations

Power Plants

Major players covered

NR Electric

Kalkitech

Selinc

Valiant Communications

Electric Power Group

Hitachi Energy

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Phasor Data Concentrator product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Phasor Data Concentrator, with price, sales quantity, revenue, and global market share of Phasor Data Concentrator from 2021 to 2026.

Chapter 3, the Phasor Data Concentrator competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Phasor Data Concentrator breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Phasor Data Concentrator market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Phasor Data Concentrator.

Chapter 14 and 15, to describe Phasor Data Concentrator sales channel, distributors, customers, research findings and conclusion.

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