

Global Clock and Data Recovery Instrument Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G99A51F3057AEN.html>

Date: August 2026

Pages: 146

Price: US\$ 4,480.00 (Single User License)

ID: G99A51F3057AEN

Abstracts

The global Clock and Data Recovery Instrument market size is expected to reach \$ 316 million by 2032, rising at a market growth of 4.5% CAGR during the forecast period (2026-2032).

In 2025, global clock and data recovery instrument production reached approximately 30 k units, the average price is 7500 usd/unit. A Clock and Data Recovery Instrument is a test device or module that extracts a clock signal synchronized with data transitions from a high-speed serial data stream via a phase-locked loop (PLL) and regenerates the data by retiming. In high-speed serial test links, it is often used as a front-end component for bit error rate testers (BERTs) and oscilloscopes to solve the synchronization problem at the receiver when the transmitter lacks its own clock. It also suppresses jitter and reconstructs clean eye diagrams. CDRs are categorized into three types based on form factor: stand-alone desktop CDRs, plug-in CDRs, and chip-embedded CDRs. They are widely used for compliance verification and signal debugging of high-speed interfaces such as optical modules, SerDes, Ethernet, and PCIe.

The gross profit margin for clock and data recovery instrument is around 28%.

This report studies the global Clock and Data Recovery Instrument production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Clock and Data Recovery Instrument 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 Clock and Data Recovery

Instrument that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Clock and Data Recovery Instrument total production and demand, 2021-2032, (K Units)

Global Clock and Data Recovery Instrument total production value, 2021-2032, (USD Million)

Global Clock and Data Recovery Instrument production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Clock and Data Recovery Instrument consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Clock and Data Recovery Instrument domestic production, consumption, key domestic manufacturers and share

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

Global Clock and Data Recovery Instrument production by Baud Rate, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Clock and Data Recovery Instrument production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Clock and Data Recovery Instrument 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 Keysight (USA), Tektronix (USA), EXFO (Canada), UC Instruments (USA), Teledyne (USA), Quantifi Photonics (New Zealand), Optellent (USA), Luster Optical Technology(China), Sinolink Technologies(China), Suzhou Semight Instruments(China), 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 Clock and Data Recovery Instrument 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 Baud Rate, 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 Clock and Data Recovery Instrument Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Clock and Data Recovery Instrument Market, Segmentation by Baud Rate:

10G

25G

32G

Others

Global Clock and Data Recovery Instrument Market, Segmentation by Input Signal:

Electrical Clock Restorer

Optical Clock Restorer

Integrated Optoelectronic Clock Restorer

Global Clock and Data Recovery Instrument Market, Segmentation by Application:

Optical Communication

Consumer Electronics

Chips & Semiconductors

Aerospace

Others

Companies Profiled:

Keysight (USA)

Tektronix (USA)

EXFO (Canada)

UC Instruments (USA)

Teledyne (USA)

Quantifi Photonics (New Zealand)

Optellent (USA)

Luster Optical Technology(China)

Sinolink Technologies(China)

Suzhou Semight Instruments(China)

Sichuan Resoo Electronics(China)

Shenzhen Gechips Electronics(China)

Shenzhen Tangling Technology(China)

Shenzhen Dimension Technology(China)

Steligent Information Technologies(China)

Wuhan Precise Electronic Technology(China)

Guangzhou Youcii Scientific Instruments(China)

Key Questions Answered:

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

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