

Global PXIe Modular Oscilloscope Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PXIe Modular Oscilloscope market size is expected to reach \$ 1229 million by 2032, rising at a market growth of 5.3% CAGR during the forecast period (2026-2032).

PXIe modular oscilloscopes are platform-based test instruments based on the PXI Express standard. They integrate high-bandwidth front-ends, configurable sampling and triggering channels, FPGA real-time processing, and high-speed data transmission capabilities through modular plug-in cards. They are primarily used in R&D laboratories, production test lines, electromagnetic compatibility analysis, and high-performance signal diagnostics. Based on recent instrument and equipment procurement trends and industry testing demand growth, global PXIe modular oscilloscope sales are estimated at approximately 17,800 units in 2025, with an average unit price of approximately US\$47,500. Capacity utilization is estimated at approximately 71.8% due to limitations in high-end board supply and integration testing cycles, and industry gross margins typically range from 30% to 45%. Upstream companies mainly come from high-speed ADC and DAC chips, high-bandwidth amplifiers and impedance matching networks, FPGAs and high-speed interconnect chips, precision analog front-ends and passive components, and chassis and backplane bus materials. Downstream companies mainly include automated test system integrators, R&D laboratory equipment suppliers, communication and semiconductor manufacturing test lines, and automotive electronics and aerospace test platform providers. In the product cost structure, high-speed data acquisition and analog front-end account for approximately 38%, FPGA and processing logic and interconnects account for approximately 22%, chassis backplane and power supply account for approximately 14%, control software and firmware account for approximately 11%, assembly, debugging and calibration account for approximately 9%, and testing, quality assurance and logistics account for approximately 6%. Based

on parameters, PXIe modular oscilloscopes can be categorized into low-bandwidth, medium-bandwidth, and high-bandwidth types. Based on maximum real-time sampling rate, they can be categorized into below 5GSps, 5 to 20GSps, and above 20GSps. Based on the number of channels, they can be categorized into single-channel, dual-channel, and multi-channel types. On the demand side, the downstream demand list includes high-speed digital and RF signal acquisition, high-bandwidth debugging and verification, production line automation testing and yield control, system-level electromagnetic compatibility and interference diagnostics, and complex protocol and multi-channel synchronous testing. The downstream customer list includes communication equipment manufacturers, semiconductor and memory chip test lines, automotive electronics and ADAS system development teams, aerospace and defense test laboratories, and automated test system integrators. In terms of business opportunities, policy-driven factors are reflected in the country's continuous support for the independent control and industrial capacity guarantee of high-end test and measurement equipment. Technological innovation-driven factors are concentrated in higher real-time sampling rates, wider bandwidth front-end designs, stronger data processing and analysis capabilities, and improved open interfaces and automated debugging capabilities. Changes in consumer demand are reflected in the increased attention paid by terminal engineers and testing teams to higher precision, faster testing speeds, and more user-friendly human-computer interaction. These factors together drive the high-value iteration and customized application of PXIe modular oscilloscopes in scientific research and industrial testing fields.

This report studies the global PXIe Modular Oscilloscope production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for PXIe Modular Oscilloscope 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 PXIe Modular Oscilloscope that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PXIe Modular Oscilloscope total production and demand, 2021-2032, (K Units)

Global PXIe Modular Oscilloscope total production value, 2021-2032, (USD Million)

Global PXIe Modular Oscilloscope production by region & country, production, value,

CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global PXIe Modular Oscilloscope consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: PXIe Modular Oscilloscope domestic production, consumption, key domestic manufacturers and share

Global PXIe Modular Oscilloscope production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global PXIe Modular Oscilloscope production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global PXIe Modular Oscilloscope production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global PXIe Modular Oscilloscope 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, NI, Adlink Tech, Iecube, Siglent Technologies, 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 PXIe Modular Oscilloscope 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 PXIe Modular Oscilloscope Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PXIe Modular Oscilloscope Market, Segmentation by Type:

Bandwidth: Below 500 MHz

Bandwidth: 500 MHz to 3 GHz

Bandwidth: Above 3 GHz

Global PXIe Modular Oscilloscope Market, Segmentation by Maximum Real-Time Sampling Rate:

Maximum Real-Time Sampling Rate: Below 5 GSps

Maximum Real-Time Sampling Rate: 5–20 GSps

Maximum Real-Time Sampling Rate: Above 20 GSps

Global PXIe Modular Oscilloscope Market, Segmentation by Channels:

Single-Channel PXIe Oscilloscope

Dual-Channel PXIe Oscilloscope

Multi-Channel PXIe Oscilloscope

Global PXIe Modular Oscilloscope Market, Segmentation by Application:

Communications

New Energy

Semiconductors

Other

Companies Profiled:

Keysight

NI

Adlink Tech

Iecube

Siglent Technologies

Key Questions Answered:

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

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