

Global PXI SMU Market Size study & Forecast, by Channel (1 channel, 2 channel, 3 channel, above 4), by Application (Semiconductors, LCD, Sensors, Green Energy Products, Nanomaterials, Organic and Printed Electronics, Others), by End User (Automotive, Aerospace, Defense and Government Services, Energy, IT & telecommunication, Consumer electronics, Medical Equipment) and Regional Analysis, 2023-2030

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Abstracts

Global PXI SMU Market is valued at approximately USD 196.5 million in 2022 and is anticipated to grow with a healthy growth rate of more than 16.58 % over the forecast period 2023-2030. PXI SMU is a Precision extension for Instrumentation Source Measure Unit. A Source Measure Unit (SMU) is a type of test and measurement instrument that combines the functions of both a voltage source and a current measurement device. It is used to source voltage or current to a device under test (DUT) and simultaneously measure the resulting voltage and current. This capability is particularly valuable in applications where precise control of electrical parameters is required, such as semiconductor testing, electronic component characterization, and device validation. . The PXI SMU Market is expanding because of factors such as the rising adoption of semiconductors, increasing adoption of IoT devices.

According to the Statista in 2022, the number of Internet of Things (IoT) devices worldwide is expected to nearly triple from USD9.7 billion in 2020 to over USD29 billion by 2030. By 2030, China is projected to have the largest number of IoT devices, with around 5 billion devices used by consumers. The increasing adoption of

semiconductors across industries increase the demand for PXI SMUs, which provide accurate testing and characterization of semiconductor devices. In addition, technological advancements in PXI SMU and rapid investment toward Research & Development would create lucrative growth opportunities. However, the high initial cost of investment and the availability of substitutes stifled market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global PXI SMU Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market over the forecast period owing to the technology companies, and research institutes, coupled with advancements in industries such as automotive and aerospace, increasing the adoption of PXI SMUs for the purpose of testing and validation. Asia Pacific is the fastest growing region over the forecast period, owing to factors such as, rapid adoption of IoT devices, strong presence of semiconductor manufacturers, coupled with advancements in the telecommunications, automotive, and consumer electronics sectors, contribute to the growing demand for PXI SMUs in this region.

Major market player included in this report are:

Keysight Technologies Inc.

LitePoint Technology, Ltd.

Marvin Test Solutions Inc.

National Instruments Inc.

Pickering Interfaces Ltd.

Rohde & Schwarz GmbH & Co KG

Virginia Panel Corporation

VX Instruments GmbH

Yokogawa Electric Corporation

Yotta Volt Ltd.

Recent Developments in the Market:

In January 2021, Keysight Technologies, Inc., a technology company specializing in global connectivity and security solutions, introduced three advanced Source Measure Units (SMUs). These SMUs are specifically designed for test applications that demand high resolution, exceptional accuracy, and measurement flexibility. They are particularly suitable for tasks such as current-voltage (I-V) characterization and testing of semiconductors, as well as other non-linear devices and materials.

Global PXI SMU Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Channel, Application, End-User, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving

factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Channel:

1 channel

2 channel

4 channel

Above 4

By Application:

Semiconductors

LED

Sensors

Green Energy Products

Nanomaterials

Organic and Printed Electronics

Others

By End-User:

Aerospace, defense & government services

Automotive

Energy

IT & telecommunication

Consumer electronics

Medical Equipment

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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