

Silicon Photomultiplier (SiPM) Market by Type (NUV SiPMs and RGB SiPMs), Device Type (Analog SiPMs and Digital SiPMs), Application (LiDAR, Medical Imaging, High Energy Physics, Hazard & Threat Detection, and Others), and Industry Vertical (Automotive, Healthcare, IT & Telecommunication, Aerospace, Oil & Gas, and Others): Global Opportunity Analysis and Industry Forecast, 2021–2030

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Abstracts

The global silicon photomultiplier market size was valued at \$113.7 million in 2020, and is projected to reach \$221.0 million by 2030, to register a CAGR of 6.8% from 2021 to 2030. A silicon photomultiplier (SiPM) is an electronic sensor, which generates an analog signal at output in real time. The histogram of the amplitudes relies on the time-characteristics & intensity of the incident light. The system output is a time sequence of current pulse, which has a discrete dispersal of amplitudes such as A, 2A, and 3A.

The global silicon photomultiplier market is anticipated to witness significant growth during the forecast period, owing to factors such as rise in need for accurate diagnosis in the healthcare industry and increase in demand for advanced driver assistance system. In addition, silicon photomultipliers are extensively used for a range of applications, including threat detection, recycling, and 3D ranging. However, technological limits such as higher noise in silicon devices is a major restraint to the global silicon photomultiplier industry. On the contrary, growing application in the healthcare sector is expected to create lucrative opportunities for the silicon photomultiplier industry.

The global silicon photomultiplier market is segmented on the basis of type, device type, application, industry vertical, and region. By type, the market is segmented into NUV SiPMs (NUV-HD SiPM technology and NUV-HD Cryo SiPM technology) and RGB SiPMs (high-cell count RGB SiPMs and low-cell count RGB SiPMs). By device type, the market is segmented into analog SiPMs and digital SiPMs. On the basis of application, the market is divided into LiDAR, medical imaging, high energy physics, hazard & threat detection, and others. By industry vertical, market is segmented into automotive, healthcare, it & telecommunication, aerospace, oil & gas, and others.

Region wise, the silicon photomultiplier market trends are analyzed across North America (U.S., Canada, and Mexico), Europe (UK, Germany, France, Italy, and rest of Europe), Asia-Pacific (China, Japan, India, South Korea, and rest of Asia-Pacific), and LAMEA (Latin America, the Middle East, and Africa). The key players operating in the market include AdvanSiD, Broadcom Inc., Cremat Inc, Excelitas Technologies Corporation, Hamamatsu Photonics K.K., Ketek GMBH, On Semiconductor, Philips, Radiation Monitoring Devices, Inc., and TE Connectivity.

KEY MARKET SEGMENTS

BY TYPE

NUV SiPMs

NUV-HD SiPM Technology

NUV-HD Cryo SiPM Technology

RGB SiPMs

High-cell Count RGB SiPMs

Low-cell Count RGB SiPMs

BY DEVICE TYPE

Analog SiPMs

Digital SiPMs

BY APPLICATION

LiDAR

Medical Imaging

High Energy Physics

Hazard & Threat Detection

Others

BY INDUSTRY VERTICAL

Automotive

Healthcare

IT & Telecommunication

Aerospace

Oil & Gas

Others

BY REGION

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

KEY PLAYERS

AdvanSiD

Broadcom Inc.

Cremat Inc

Excelitas Technologies Corporation

Hamamatsu Photonics K.K.

Ketek GMBH

On Semiconductor

Philips

Radiation Monitoring Devices, Inc.

TE Connectivity

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FIGUR

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