

Silicon Photomultiplier Market with COVID-19 Impact Analysis, by Offering (NUV, RGB), Type (Analog, Digital), Application (LiDAR and 3D Ranging, BioPhotonics & Medical Imaging, High energy Physics), End User, and Geography - Global Forecast to 2026

<https://marketpublishers.com/r/SB6C194CF884EN.html>

Date: December 2021

Pages: 169

Price: US\$ 4,950.00 (Single User License)

ID: SB6C194CF884EN

Abstracts

The silicon photomultiplier market is expected to grow from USD 120million in 2021 to USD 173million by 2026, at a CAGR of 7.6%. The market growth can be attributed to several factors, such as the increasing demand for silicon photomultipliers in medical imaging and growing use of SiPMs in LiDAR and 3D mapping technology.

The silicon photomultiplier market has historically been showcasing significant growth owing to the rapid adoption of silicon photomultipliers across key industry verticals such as healthcare, automotive, consumer electronics and telecommunication, aerospace, and oil & gas. However, due to the sudden onset of the COVID-19 pandemic, market growth declined and will continue to do so till the disrupted supply chains across the globe normalize. Post the COVID-19 pandemic, market growth will experience tremendous acceleration as there will be a huge requirement for silicon photomultipliers for applications such as medical imaging, LiDAR and 3D ranging, radiation detection & monitoring, and flow cytometry.

The NUV silicon photomultiplier segment is expected to exhibit a higher CAGR of the silicon photomultiplier market during the forecast period

Based on the offering, the silicon photomultiplier market has been divided into near ultraviolet silicon photomultiplier, and red, green blue silicon photomultiplier. Increasing

demand for NUV silicon photomultipliers in hospitals for medical imaging applications related to nuclear medicine, and the upsurge of COVID-19 infections are driving the growth of the NUV silicon photomultiplier segment.

Healthcare segment to hold the largest share of silicon photomultiplier market during the forecast period

Healthcare is one of the few sectors that experienced tremendous growth during the COVID-19 pandemic. Medical devices, imaging devices, medical services & managed care, and pharmaceuticals saw particularly significant growth.

Medical imaging is an important operational area within the healthcare sector that has been experiencing considerable growth even before the onset of the COVID-19 pandemic. This growth increased manifold during the pandemic, when the increased demand for diagnostic imaging saw a surge in the requirement for medical imaging devices such as PET scanners, X-ray machines, and MRI machines. Silicon photomultipliers are fundamental components of these imaging devices.

The analog silicon photomultiplier segment to hold the largest share of silicon photomultiplier market during the forecast period

On the basis of type, the market is categorized into digital silicon photomultiplier and analog silicon photomultiplier. The growing use of analog silicon photomultipliers in applications such as radiation detection and flow cytometry is responsible for the growth of the segment. Various countries across the world are ramping up their border security infrastructure to eliminate illegal nuclear arms trade. Analog silicon photomultipliers help detect residual radiation.

APAC is expected to register the highest CAGR in the market during the forecast period

Among all regions, APAC is expected to register the highest growth in the silicon photomultiplier market during the forecast period. Growth in medical infrastructure across various countries in this region is expected to propel the growth of silicon photomultipliers. China, India, South Korea, and Japan ramped up the availability of various medical imaging devices in hospitals and clinics to effectively deal with the COVID-19 pandemic. Therefore, as the demand for these imaging devices went up, the demand for silicon photomultipliers also increased manifold.

Breakdown of primary participants:

By Company Type: Tier 1 = 35%, Tier 2 = 45%, and Tier 3 = 20%

By Designation: C-Level Executives = 20%, Directors = 35%, and Others = 45%

By Region: North America = 30%, Europe = 25%, APAC = 40%, and RoW = 5%

Some of the major players in the silicon photomultiplier market include ON Semiconductor (US), Broadcom (US), Hamamatsu Photonics (Japan), First Sensor (Germany), KETEK GmbH (Germany), AdvanSiD (Italy), Cremat (US), Excelitas Technologies (US), and so on.

Research Coverage:

In this report, the silicon photomultiplier market has been segmented on the basis of offering, type, end user, application, and region. The report also discusses the drivers, restraints, opportunities, and challenges pertaining to the market. It gives a detailed view of the market across four main regions—North America, Europe, APAC, and RoW. Value chain analysis has been included in the report, along with the key players and their competitive analysis in the silicon photomultiplier ecosystem.

Key Benefits to Buy the Report:

This report includes statistics for the silicon photomultiplier market based on offering, type, end user, application, and region, along with their respective market sizes.

Value chain analysis and key industry trends have been provided for the market.

Major drivers, restraints, opportunities, and challenges for the silicon photomultiplier market have been provided in detail in this report.

This report would help stakeholders to understand their competitors better and gain more insights to enhance their position in the market. The competitive landscape section includes the competitor ecosystem and the recent development strategies adopted by the key players in the market, such as new product launches, acquisitions, collaborations, agreements, and partnerships.

Contents

1 INTRODUCTION

1.1 OBJECTIVES OF THE STUDY

1.2 DEFINITION

1.2.1 INCLUSIONS AND EXCLUSIONS

1.3 STUDY SCOPE

1.3.1 MARKETS COVERED

FIGURE 1 SILICON PHOTOMULTIPLIER MARKET SEGMENTATION

1.3.2 GEOGRAPHIC SCOPE

1.3.3 YEARS CONSIDERED

1.4 CURRENCY

1.5 VOLUME UNIT CONSIDERED

1.6 LIMITATIONS

1.7 STAKEHOLDERS

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 SILICON PHOTOMULTIPLIER: RESEARCH DESIGN

2.1.1 SECONDARY AND PRIMARY RESEARCH

2.1.2 SECONDARY DATA

2.1.2.1 List of secondary sources

2.1.2.2 Key secondary sources

2.1.3 PRIMARY DATA

2.1.3.1 Primary interviews with experts

2.1.3.2 Key industry insights

2.1.3.3 Breakdown of primaries

2.2 MARKET SIZE ESTIMATION

2.2.1 BOTTOM-UP APPROACH

2.2.1.1 Approach for arriving at market size using bottom-up analysis

FIGURE 3 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 2 BOTTOM-UP (SUPPLY SIDE)—ILLUSTRATION OF REVENUE ESTIMATION OF COMPANIES FROM SALES OF SILICON PHOTOMULTIPLIERS

2.2.2 TOP-DOWN APPROACH

2.2.2.1 Approach for capturing market size using top-down analysis

FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 1 (SUPPLY SIDE)—REVENUE GENERATED FROM SILICON PHOTOMULTIPLIER SALES

2.3 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 7 DATA TRIANGULATION

2.4 RESEARCH ASSUMPTIONS

2.5 RISK ASSESSMENTS

TABLE 1 LIMITATIONS AND ASSOCIATED RISKS

2.6 LIMITATIONS

3 EXECUTIVE SUMMARY

3.1 GROWTH RATE ASSUMPTIONS/GROWTH FORECAST

TABLE 2 SILICON PHOTOMULTIPLIER MARKET, 2017–2020 (USD MILLION)

TABLE 3 SILICON PHOTOMULTIPLIER MARKET, 2021–2026 (USD MILLION)

FIGURE 8 EFFECT OF COVID-19 ON SILICON PHOTOMULTIPLIER MARKET

3.2 POST-COVID-19 SCENARIO

TABLE 4 POST-COVID-19 SCENARIO: SILICON PHOTOMULTIPLIER MARKET, 2021–2026 (USD MILLION)

3.2.1 OPTIMISTIC SCENARIO (POST-COVID-19)

TABLE 5 OPTIMISTIC SCENARIO (POST-COVID-19): SILICON PHOTOMULTIPLIER MARKET, 2021–2026 (USD MILLION)

3.2.2 PESSIMISTIC SCENARIO (POST-COVID-19)

TABLE 6 PESSIMISTIC SCENARIO (POST-COVID-19): SILICON PHOTOMULTIPLIER MARKET, 2021–2026 (USD MILLION)

FIGURE 9 ANALOG SILICON PHOTOMULTIPLIER SEGMENT TO LEAD MARKET FROM 2021 TO 2026

FIGURE 10 NORTH AMERICA TO HOLD LARGEST SHARE OF SILICON PHOTOMULTIPLIER MARKET IN 2021

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE GROWTH OPPORTUNITIES IN SILICON PHOTOMULTIPLIER MARKET

FIGURE 11 INCREASING DEMAND FOR SILICON PHOTOMULTIPLIERS FOR MEDICAL IMAGING AND LIDAR APPLICATIONS TO FUEL MARKET FROM 2021 TO 2026

4.2 SILICON PHOTOMULTIPLIER MARKET, BY TYPE

FIGURE 12 ANALOG SILICON PHOTOMULTIPLIER SEGMENT TO ACCOUNT FOR LARGEST SIZE OF MARKET FROM 2021 TO 2026

4.3 SILICON PHOTOMULTIPLIER MARKET, BY OFFERING AND REGION
FIGURE 13 RGB SILICON PHOTOMULTIPLIER SEGMENT TO HOLD LARGEST
SIZE OF MARKET IN 2021

4.4 SILICON PHOTOMULTIPLIER MARKET, BY COUNTRY
FIGURE 14 SILICON PHOTOMULTIPLIER MARKET IN CHINA TO RECORD
HIGHEST CAGR FROM 2021 TO 2026

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 15 SILICON PHOTOMULTIPLIER MARKET: DRIVERS, RESTRAINTS,
OPPORTUNITIES, AND CHALLENGES

5.2.1 DRIVERS

5.2.1.1 Increasing demand for silicon photomultipliers in medical imaging

5.2.1.2 Growing use of SiPMs in LiDAR and 3D mapping technology

5.2.2 RESTRAINTS

5.2.2.1 Limited penetration of SiPM technology in several regions

5.2.3 OPPORTUNITIES

5.2.3.1 Rising demand for SiPMs for radiation detection & monitoring purposes

5.2.3.2 Ability of SiPMs to replace existing technologies

5.2.4 CHALLENGES

5.2.4.1 Acute scarcity of silicon due to supply chain disruption during COVID-19
pandemic

5.3 VALUE CHAIN ANALYSIS

FIGURE 16 SILICON PHOTOMULTIPLIER MARKET VALUE CHAIN IN 2020

5.4 PORTER'S FIVE FORCES ANALYSIS

TABLE 7 SILICON PHOTOMULTIPLIER MARKET: PORTER'S FIVE FORCES
ANALYSIS

5.5 ECOSYSTEM ANALYSIS

TABLE 8 ECOSYSTEM: SILICON PHOTOMULTIPLIER MARKET

5.6 REVENUE SHIFT AND NEW REVENUE POCKETS FOR SILICON
PHOTOMULTIPLIER MARKET

FIGURE 17 SILICON PHOTOMULTIPLIER (YC-YCC SHIFT)

5.7 CASE STUDY ANALYSIS

5.7.1 USE CASE – SIEMENS HEALTHINEERS AND FONDAZIONE BRUNO
KESSLER RESEARCH INSTITUTE

5.7.2 USE CASE – LOCKHEED MARTIN AND ON SEMICONDUCTOR

5.7.3 USE CASE – TOYOTA AND SENSL (OMNIVISION)

5.8 TECHNOLOGY ANALYSIS

5.8.1 TIME OF FLIGHT (TOF) LIDAR

5.8.2 NUCLEAR MEDICINE IMAGING

5.9 PRICING ANALYSIS

FIGURE 18 ASP OF SILICON PHOTOMULTIPLIER MODULES, SILICON PHOTOMULTIPLIER MARKET, 2017–2026 (USD)

TABLE 9 ASP RANGE OF SILICON PHOTOMULTIPLIER MODULES IN SILICON PHOTOMULTIPLIER MARKET, 2018-2027

5.10 TRADE ANALYSIS

TABLE 10 EXPORTS DATA, BY COUNTRY, 2016–2020

FIGURE 19 EXPORTS DATA FOR HS CODE 854140 FOR TOP COUNTRIES IN SILICON PHOTOMULTIPLIER MARKET, 2016–2020 (MILLION UNITS)

TABLE 11 IMPORTS DATA, BY COUNTRY, 2016–2020

FIGURE 20 IMPORTS DATA FOR HS CODE 854140 FOR TOP COUNTRIES IN SILICON PHOTOMULTIPLIER MARKET, 2016–2020 (MILLION UNITS)

5.11 PATENT ANALYSIS

FIGURE 21 PATENT ANALYSIS: SILICON PHOTOMULTIPLIER MARKET

TABLE 12 RELATED PATENTS

5.12 REGULATORY LANDSCAPE

5.12.1 RESTRICTION OF HAZARDOUS SUBSTANCES (ROHS) AND WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)

5.12.2 REGISTRATION, EVALUATION, AUTHORIZATION, AND RESTRICTION OF CHEMICALS (REACH)

6 SILICON PHOTOMULTIPLIER MARKET, BY OFFERING

6.1 INTRODUCTION

6.1.1 CHARACTERISTICS OF SILICON PHOTOMULTIPLIERS:

TABLE 13 SILICON PHOTOMULTIPLIER (SIPM) VS PHOTOMULTIPLIER TUBE (PMT)

FIGURE 22 SILICON PHOTOMULTIPLIER MARKET, BY OFFERING

FIGURE 23 SCHEMATIC REPRESENTATIONS OF SIPM DETECTION CIRCUITS

FIGURE 24 RGB SILICON PHOTOMULTIPLIER SEGMENT TO HOLD LARGEST MARKET SHARE DURING FORECAST PERIOD

TABLE 14 SILICON PHOTOMULTIPLIER MARKET, BY OFFERING, 2017–2020 (USD MILLION)

TABLE 15 SILICON PHOTOMULTIPLIER MARKET, BY OFFERING, 2021–2026 (USD MILLION)

6.2 NEAR ULTRAVIOLET SILICON PHOTOMULTIPLIER

- 6.2.1 USE CASE: TIME OF FLIGHT POSITRON EMISSION TOMOGRAPHY
- 6.2.2 TRENDS – NUV SILICON PHOTOMULTIPLIER
- 6.3 RED, GREEN AND BLUE SILICON PHOTOMULTIPLIER
 - 6.3.1 USE CASE: NEUTRON DETECTORS FOR HOMELAND SECURITY
 - 6.3.2 TRENDS – RGB SILICON PHOTOMULTIPLIER
- TABLE 16 RGB SIPM VS NUV SIPM

7 SILICON PHOTOMULTIPLIER MARKET, BY TYPE

7.1 INTRODUCTION

FIGURE 25 OPERATION DIAGRAM: - SILICON PHOTOMULTIPLIER

FIGURE 26 SILICON PHOTOMULTIPLIER MARKET, BY OFFERING

FIGURE 27 ANALOG SILICON PHOTOMULTIPLIER SEGMENT TO HOLD LARGEST MARKET SHARE DURING FORECAST PERIOD

TABLE 17 SILICON PHOTOMULTIPLIER MARKET, BY TYPE, 2017–2020 (USD MILLION)

TABLE 18 SILICON PHOTOMULTIPLIER MARKET, BY TYPE, 2021–2026 (USD MILLION)

7.2 ANALOG SILICON PHOTOMULTIPLIER

7.2.1 TRENDS – ANALOG SIPM

FIGURE 28 ANALOG SILICON PHOTOMULTIPLIER DETECTOR

7.2.2 RECENT DEVELOPMENTS

TABLE 19 ANALOG SILICON PHOTOMULTIPLIER MARKET, BY APPLICATION, 2017–2020 (USD MILLION)

TABLE 20 ANALOG SILICON PHOTOMULTIPLIER MARKET, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 21 ANALOG SILICON PHOTOMULTIPLIER MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 22 ANALOG SILICON PHOTOMULTIPLIER MARKET, BY END USER, 2021–2026 (USD MILLION)

7.3 DIGITAL SILICON PHOTOMULTIPLIER

7.3.1 TRENDS – DIGITAL SIPM

FIGURE 29 DIGITAL SILICON PHOTOMULTIPLIER DETECTOR

TABLE 23 DIGITAL SILICON PHOTOMULTIPLIER MARKET, BY APPLICATION, 2017–2020 (USD MILLION)

TABLE 24 DIGITAL SILICON PHOTOMULTIPLIER MARKET, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 25 DIGITAL SILICON PHOTOMULTIPLIER MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 26 DIGITAL SILICON PHOTOMULTIPLIER MARKET, BY END USER,
2021–2026 (USD MILLION)

TABLE 27 ANALOG SIPM VS DIGITAL SIPM

8 SILICON PHOTOMULTIPLIER MARKET, BY APPLICATION

8.1 INTRODUCTION

FIGURE 30 SILICON PHOTOMULTIPLIER MARKET, BY OFFERING

FIGURE 31 BIO PHOTONICS AND MEDICAL IMAGING SEGMENT TO HOLD
LARGEST SHARE OF SILICON PHOTOMULTIPLIER MARKET, BY APPLICATION

TABLE 28 SILICON PHOTOMULTIPLIER MARKET, BY APPLICATION, 2017–2020
(USD MILLION)

TABLE 29 SILICON PHOTOMULTIPLIER MARKET, BY APPLICATION, 2021–2026
(USD MILLION)

8.2 LIDAR AND 3D RANGING

8.2.1 TRENDS AND DEVELOPMENTS

TABLE 30 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING, BY
TYPE, 2017–2020 (USD MILLION)

TABLE 31 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING, BY
TYPE, 2021–2026 (USD MILLION)

TABLE 32 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING, BY
REGION, 2017–2020 (USD MILLION)

TABLE 33 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING, BY
REGION, 2021–2026 (USD MILLION)

TABLE 34 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING IN
NORTH AMERICA, FOR US, 2017–2020 (USD MILLION)

TABLE 35 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING IN
NORTH AMERICA, FOR US, 2021–2026 (USD MILLION)

TABLE 36 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING IN
NORTH AMERICA, FOR CANADA, 2017–2020 (USD MILLION)

TABLE 37 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING IN
NORTH AMERICA, FOR CANADA, 2021–2026 (USD MILLION)

TABLE 38 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING IN
NORTH AMERICA, FOR MEXICO, 2017–2020 (USD MILLION)

TABLE 39 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING IN
NORTH AMERICA, FOR MEXICO, 2021–2026 (USD MILLION)

TABLE 40 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING IN
EUROPE, FOR UK, 2017–2020 (USD MILLION)

TABLE 41 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING IN

EUROPE, FOR UK, 2021–2026 (USD MILLION)

TABLE 42 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING IN EUROPE, FOR GERMANY, 2017–2020 (USD MILLION)

TABLE 43 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING IN EUROPE, FOR GERMANY, 2021–2026 (USD MILLION)

TABLE 44 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING IN EUROPE, FOR FRANCE, 2017–2020 (USD MILLION)

TABLE 45 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING IN EUROPE, FOR FRANCE, 2021–2026 (USD MILLION)

TABLE 46 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING IN EUROPE, FOR ITALY, 2017–2020 (USD MILLION)

TABLE 47 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING IN EUROPE, FOR ITALY, 2021–2026 (USD MILLION)

TABLE 48 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING IN EUROPE, FOR ROE, 2017–2020 (USD MILLION)

TABLE 49 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING IN EUROPE, FOR ROE, 2021–2026 (USD MILLION)

TABLE 50 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING IN APAC, FOR CHINA, 2017–2020 (USD MILLION)

TABLE 51 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING IN APAC, FOR CHINA, 2021–2026 (USD MILLION)

TABLE 52 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING IN APAC, FOR JAPAN, 2017–2020 (USD MILLION)

TABLE 53 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING IN APAC, FOR JAPAN, 2021–2026 (USD MILLION)

TABLE 54 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING IN APAC, FOR SOUTH KOREA, 2017–2020 (USD MILLION)

TABLE 55 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING IN APAC, FOR SOUTH KOREA, 2021–2026 (USD MILLION)

TABLE 56 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING IN APAC, FOR ROAPAC, 2017–2020 (USD MILLION)

TABLE 57 SILICON PHOTOMULTIPLIER MARKET IN LIDAR AND 3D RANGING IN APAC, FOR ROAPAC, 2021–2026 (USD MILLION)

8.3 BIO PHOTONICS AND MEDICAL IMAGING

8.3.1 TRENDS AND DEVELOPMENTS

TABLE 58 SILICON PHOTOMULTIPLIER MARKET IN BIO PHOTONICS AND MEDICAL IMAGING, BY TYPE, 2017–2020 (USD MILLION)

TABLE 59 SILICON PHOTOMULTIPLIER MARKET IN BIO PHOTONICS AND MEDICAL IMAGING, BY TYPE, 2021–2026 (USD MILLION)

TABLE 60 SILICON PHOTOMULTIPLIER MARKET IN BIO PHOTONICS AND MEDICAL IMAGING, BY REGION, 2017–2020 (USD MILLION)

TABLE 61 SILICON PHOTOMULTIPLIER MARKET IN BIO PHOTONICS AND MEDICAL IMAGING, BY REGION, 2021–2026 (USD MILLION)

8.4 HIGH ENERGY PHYSICS

8.4.1 TRENDS AND DEVELOPMENTS

TABLE 62 SILICON PHOTOMULTIPLIER MARKET IN HIGH ENERGY PHYSICS, BY TYPE, 2017–2020 (USD MILLION)

TABLE 63 SILICON PHOTOMULTIPLIER MARKET IN HIGH ENERGY PHYSICS, BY TYPE, 2021–2026 (USD MILLION)

TABLE 64 SILICON PHOTOMULTIPLIER MARKET IN HIGH ENERGY PHYSICS, BY REGION, 2017–2020 (USD MILLION)

TABLE 65 SILICON PHOTOMULTIPLIER MARKET IN HIGH ENERGY PHYSICS, BY REGION, 2021–2026 (USD MILLION)

8.5 RADIATION DETECTION & MONITORING

8.5.1 TRENDS AND DEVELOPMENTS

TABLE 66 SILICON PHOTOMULTIPLIER MARKET IN RADIATION DETECTION & MONITORING, BY TYPE, 2017–2020 (USD MILLION)

TABLE 67 SILICON PHOTOMULTIPLIER MARKET IN RADIATION DETECTION & MONITORING, BY TYPE, 2021–2026 (USD MILLION)

TABLE 68 SILICON PHOTOMULTIPLIER MARKET IN RADIATION DETECTION & MONITORING, BY REGION, 2017–2020 (USD MILLION)

TABLE 69 SILICON PHOTOMULTIPLIER MARKET IN RADIATION DETECTION & MONITORING, BY REGION, 2021–2026 (USD MILLION)

8.6 FLOW CYTOMETRY

8.6.1 TRENDS AND DEVELOPMENTS

TABLE 70 SILICON PHOTOMULTIPLIER MARKET IN FLOW CYTOMETRY, BY TYPE, 2017–2020 (USD MILLION)

TABLE 71 SILICON PHOTOMULTIPLIER MARKET IN FLOW CYTOMETRY, BY TYPE, 2021–2026 (USD MILLION)

TABLE 72 SILICON PHOTOMULTIPLIER MARKET IN FLOW CYTOMETRY, BY REGION, 2017–2020 (USD MILLION)

TABLE 73 SILICON PHOTOMULTIPLIER MARKET IN FLOW CYTOMETRY, BY REGION, 2021–2026 (USD MILLION)

9 SILICON PHOTOMULTIPLIER MARKET, BY END USER

9.1 INTRODUCTION

FIGURE 32 SILICON PHOTOMULTIPLIER MARKET, BY END USER

FIGURE 33 HEALTHCARE SEGMENT TO HOLD LARGEST MARKET SHARE DURING FORECAST PERIOD

TABLE 74 SILICON PHOTOMULTIPLIER MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 75 SILICON PHOTOMULTIPLIER MARKET, BY END USER, 2021–2026 (USD MILLION)

9.2 HEALTHCARE

9.2.1 RECENT DEVELOPMENTS:

TABLE 76 SILICON PHOTOMULTIPLIER MARKET IN HEALTHCARE, BY TYPE, 2017–2020 (USD MILLION)

TABLE 77 SILICON PHOTOMULTIPLIER MARKET IN HEALTHCARE, BY TYPE, 2021–2026 (USD MILLION)

9.3 AUTOMOTIVE

9.3.1 RECENT DEVELOPMENTS:

TABLE 78 SILICON PHOTOMULTIPLIER MARKET IN AUTOMOTIVE, BY TYPE, 2017–2020 (USD MILLION)

TABLE 79 SILICON PHOTOMULTIPLIER MARKET IN AUTOMOTIVE, BY TYPE, 2021–2026 (USD MILLION)

9.4 CONSUMER ELECTRONICS AND TELECOMMUNICATION

TABLE 80 SILICON PHOTOMULTIPLIER MARKET IN CONSUMER ELECTRONICS AND TELECOMMUNICATION, BY TYPE, 2017–2020 (USD MILLION)

TABLE 81 SILICON PHOTOMULTIPLIER MARKET IN CONSUMER ELECTRONICS AND TELECOMMUNICATION, BY TYPE, 2021–2026 (USD MILLION)

9.5 AEROSPACE

9.5.1 RECENT DEVELOPMENTS:

TABLE 82 SILICON PHOTOMULTIPLIER MARKET IN AEROSPACE, BY TYPE, 2017–2020 (USD MILLION)

TABLE 83 SILICON PHOTOMULTIPLIER MARKET IN AEROSPACE, BY TYPE, 2021–2026 (USD MILLION)

9.6 OIL & GAS

TABLE 84 SILICON PHOTOMULTIPLIER MARKET IN OIL & GAS, BY TYPE, 2017–2020 (USD MILLION)

TABLE 85 SILICON PHOTOMULTIPLIER MARKET IN OIL & GAS, BY TYPE, 2021–2026 (USD MILLION)

9.7 OTHERS

TABLE 86 SILICON PHOTOMULTIPLIER MARKET IN OTHERS, BY TYPE, 2017–2020 (USD MILLION)

TABLE 87 SILICON PHOTOMULTIPLIER MARKET IN OTHERS, BY TYPE, 2021–2026 (USD MILLION)

10 SILICON PHOTOMULTIPLIER MARKET, BY REGION

10.1 INTRODUCTION

FIGURE 34 SILICON PHOTOMULTIPLIER MARKET IN CHINA TO RECORD HIGHEST CAGR DURING FORECAST PERIOD

FIGURE 35 ASIA PACIFIC TO REGISTER HIGHEST CAGR IN SILICON PHOTOMULTIPLIER MARKET DURING FORECAST PERIOD

TABLE 88 SILICON PHOTOMULTIPLIER MARKET, BY REGION, 2017–2020 (USD MILLION)

TABLE 89 SILICON PHOTOMULTIPLIER MARKET, BY REGION, 2021–2026 (USD MILLION)

10.2 NORTH AMERICA

FIGURE 36 NORTH AMERICA: SNAPSHOT OF SILICON PHOTOMULTIPLIER MARKET

TABLE 90 SILICON PHOTOMULTIPLIER MARKET IN NORTH AMERICA, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 91 SILICON PHOTOMULTIPLIER MARKET IN NORTH AMERICA, BY COUNTRY, 2021–2026 (USD MILLION)

10.2.1 US

10.2.2 CANADA

10.2.3 MEXICO

10.3 EUROPE

FIGURE 37 EUROPE: SNAPSHOT OF SILICON PHOTOMULTIPLIER MARKET

TABLE 92 SILICON PHOTOMULTIPLIER MARKET IN EUROPE, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 93 SILICON PHOTOMULTIPLIER MARKET IN EUROPE, BY COUNTRY, 2021–2026 (USD MILLION)

10.3.1 GERMANY

10.3.2 UK

10.3.3 FRANCE

10.3.4 ITALY

10.3.5 REST OF EUROPE

10.4 ASIA PACIFIC

FIGURE 38 APAC: SNAPSHOT OF SILICON PHOTOMULTIPLIER MARKET

TABLE 94 SILICON PHOTOMULTIPLIER MARKET IN APAC, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 95 SILICON PHOTOMULTIPLIER MARKET IN APAC, BY COUNTRY, 2021–2026 (USD MILLION)

10.4.1 CHINA

10.4.2 JAPAN

10.4.3 SOUTH KOREA

10.4.4 REST OF ASIA PACIFIC

10.5 REST OF THE WORLD

FIGURE 39 ROW: SNAPSHOT OF SILICON PHOTOMULTIPLIER MARKET

TABLE 96 SILICON PHOTOMULTIPLIER MARKET IN ROW, BY REGION, 2017–2020
(USD MILLION)

TABLE 97 SILICON PHOTOMULTIPLIER MARKET IN ROW, BY REGION, 2021–2026
(USD MILLION)

10.5.1 SOUTH AMERICA

10.5.2 MIDDLE EAST & AFRICA

11 COMPETITIVE LANDSCAPE

11.1 KEY PLAYER STRATEGIES/RIGHT TO WIN

11.2 OVERVIEW

11.3 TOP 5 COMPANY REVENUE ANALYSIS

FIGURE 40 THREE-YEAR REVENUE ANALYSIS OF TOP 5 PLAYERS IN SILICON
PHOTOMULTIPLIER MARKET

11.4 MARKET SHARE ANALYSIS (2020)

TABLE 98 SILICON PHOTOMULTIPLIER MARKET: MARKET SHARE ANALYSIS

11.5 COMPANY EVALUATION QUADRANT, 2020

11.5.1 STAR

11.5.2 PERVASIVE

11.5.3 EMERGING LEADER

11.5.4 PARTICIPANT

FIGURE 41 SILICON PHOTOMULTIPLIER MARKET (GLOBAL) COMPANY
EVALUATION QUADRANT, 2020

11.6 OTHER ECOYSTEM PLAYERS EVALUATION QUADRANT, 2020

11.6.1 PROGRESSIVE COMPANY

11.6.2 RESPONSIVE COMPANY

11.6.3 DYNAMIC COMPANY

11.6.4 STARTING BLOCK

FIGURE 42 SILICON PHOTOMULTIPLIER MARKET (GLOBAL), OTHER
ECOSYSTEM PLAYERS EVALUATION QUADRANT, 2020

TABLE 99 SILICON PHOTOMULTIPLIER MARKET: COMPANY FOOTPRINT

TABLE 100 COMPANY END USER FOOTPRINT

TABLE 101 COMPANY APPLICATION FOOTPRINT

TABLE 102 COMPANY REGION FOOTPRINT

11.7 COMPETITIVE SCENARIO

TABLE 103 SILICON PHOTOMULTIPLIER MARKET: PRODUCT LAUNCHES AND DEVELOPMENTS, MARCH 2019 TO APRIL 2021

TABLE 104 SILICON PHOTOMULTIPLIER MARKET: DEALS, MARCH 2019?NOVEMBER 2021

12 COMPANY PROFILES

12.1 KEY PLAYERS

Business overview, Products/ solutions/services offered, Recent developments, Product launches, Deals, MnM view, Key strengths/right to win, Strategic choices made, and Weaknesses and competitive threats

12.1.1 ON SEMICONDUCTOR (ONSEMI)

TABLE 105 ON SEMICONDUCTOR : BUSINESS OVERVIEW

FIGURE 43 ON SEMICONDUCTOR: COMPANY SNAPSHOT

12.1.2 BROADCOM

TABLE 106 BROADCOM: BUSINESS OVERVIEW

FIGURE 44 BROADCOM: COMPANY SNAPSHOT

12.1.3 HAMAMATSU PHOTONICS

TABLE 107 HAMAMATSU PHOTONICS : BUSINESS OVERVIEW

FIGURE 45 HAMAMATSU PHOTONICS: COMPANY SNAPSHOT

12.1.4 FIRST SENSOR (TE CONNECTIVITY)

TABLE 108 FIRST SENSOR (TE CONNECTIVITY) : BUSINESS OVERVIEW

FIGURE 46 FIRST SENSOR (TE CONNECTIVITY): COMPANY SNAPSHOT

12.1.5 KETEK GMBH

TABLE 109 KETEK GMBH : BUSINESS OVERVIEW

12.1.6 ADVANSID

TABLE 110 ADVANSID : BUSINESS OVERVIEW

12.1.7 CREMAT

TABLE 111 CREMAT : BUSINESS OVERVIEW

12.1.8 EXCELITAS TECHNOLOGIES

TABLE 112 EXCELITAS TECHNOLOGIES : BUSINESS OVERVIEW

12.2 OTHER ECOSYSTEM PLAYERS

12.2.1 JOHN CAUNT SCIENTIFIC LTD.

12.2.2 CAEN SPA

12.2.3 BERKELEY NUCLEONICS

12.2.4 HAYASA TECHNOLOGIES

12.2.5 SAINT GOBAIN CRYSTALS

- 12.2.6 PICOQUANT
- 12.2.7 ALBIS OPTOELECTRONICS
- 12.2.8 MENLO SYSTEMS
- 12.2.9 LASER COMPONENTS GMBH
- 12.2.10 LUMENTUM
- 12.2.11 PHOGRain TECHNOLOGY (SHENZHEN)
- 12.2.12 GPD OPTOELECTRONICS
- 12.2.13 D-TECH OPTOELECTRONICS
- 12.2.14 DYNASIL CORPORATION OF AMERICA
- 12.2.15 OSI OPTOELECTRONICS
- 12.2.16 KYOTO SEMICONDUCTOR

*Details on Business overview, Products/ solutions/services offered, Recent developments, Product launches, Deals, MnM view, Key strengths/right to win, Strategic choices made, and Weaknesses and competitive threats not be captured in case of unlisted companies.

13 APPENDIX

- 13.1 INSIGHTS OF INDUSTRY EXPERTS
- 13.2 DISCUSSION GUIDE
- 13.3 KNOWLEDGE STORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL
- 13.4 AVAILABLE CUSTOMIZATIONS
- 13.5 RELATED REPORTS
- 13.6 AUTHOR DETAILS

I would like to order

Product name: Silicon Photomultiplier Market with COVID-19 Impact Analysis, by Offering (NUV, RGB), Type (Analog, Digital), Application (LiDAR and 3D Ranging, BioPhotonics & Medical Imaging, High energy Physics), End User, and Geography - Global Forecast to 2026

Product link: <https://marketpublishers.com/r/SB6C194CF884EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/SB6C194CF884EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970