

Superconducting Nanowire Single-Photon Detector (SNSPD) Market, Global Outlook and Forecast 2022-2028

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Abstracts

The superconducting nanowire single-photon detector (SNSPD) is a quantum-limit superconducting optical detector based on the Cooper-pair breaking effect by a single photon, which exhibits a higher detection efficiency, lower dark count rate, higher counting rate, and lower timing jitter when compared with those exhibited by its counterparts. SNSPDs have been extensively applied in quantum information processing, including quantum key distribution and optical quantum computation. The superconducting nanowire single photon detector (SNSPD) consists of a thin film of superconducting material shaped into a meandering nanowire through nanofabrication processes. This pattern enables it to cover a wide surface area, collecting the whole output of an optical fiber, while constituting a single path for the current. The detectors are operated at 2.5 Kelvin and a constant current below the critical current of the superconductor is applied to the device. The nanoscale cross section gives our photon detectors an extremely high level of sensitivity upon absorption of just a single photon. Ps: The SNSPDs in the report refer to the commercial SNSPD devices, which per price was more than 100 K US\$ currently.

This report contains market size and forecasts of Superconducting Nanowire Single-Photon Detector (SNSPD) in global, including the following market information:

Global Superconducting Nanowire Single-Photon Detector (SNSPD) Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Superconducting Nanowire Single-Photon Detector (SNSPD) Market Sales, 2017-2022, 2023-2028, (Units)

Global top five Superconducting Nanowire Single-Photon Detector (SNSPD) companies in 2021 (%)

The global Superconducting Nanowire Single-Photon Detector (SNSPD) market was valued at 22 million in 2021 and is projected to reach US\$ 38 million by 2028, at a CAGR of 7.9% during the forecast period 2022-2028.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

Standard SNSPD Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Superconducting Nanowire Single-Photon Detector (SNSPD) include Scontel, Single Quantum, Quantum Opus, Photon Spot, ID Quantique and Photec, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Superconducting Nanowire Single-Photon Detector (SNSPD) manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Superconducting Nanowire Single-Photon Detector (SNSPD) Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (Units)

Global Superconducting Nanowire Single-Photon Detector (SNSPD) Market Segment Percentages, by Type, 2021 (%)

Standard SNSPD

High-spec Standard SNSPD

Global Superconducting Nanowire Single-Photon Detector (SNSPD) Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (Units)

Global Superconducting Nanowire Single-Photon Detector (SNSPD) Market Segment Percentages, by Application, 2021 (%)

Quantum Key Distribution

Optical Quantum Computation

Other

Global Superconducting Nanowire Single-Photon Detector (SNSPD) Market, By Region and Country, 2017-2022, 2023-2028 (\$ Millions) & (Units)

Global Superconducting Nanowire Single-Photon Detector (SNSPD) Market Segment Percentages, By Region and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Superconducting Nanowire Single-Photon Detector (SNSPD) revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies Superconducting Nanowire Single-Photon Detector (SNSPD) revenues share in global market, 2021 (%)

Key companies Superconducting Nanowire Single-Photon Detector (SNSPD) sales in global market, 2017-2022 (Estimated), (Units)

Key companies Superconducting Nanowire Single-Photon Detector (SNSPD) sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

Scotel

Single Quantum

Quantum Opus

Photon Spot

ID Quantique

Photec

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