

2020-2025 Global Photonic Neuromorphic Chip Market Report - Production and Consumption Professional Analysis (Impact of COVID-19)

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Abstracts

Photons have significantly more bandwidth than electrons and so can process more data more quickly. But the advantages of optical data processing systems have never outweighed the additional cost of making them, and so they have never been widely adopted. That has started to change in some areas of computing, such as analog signal processing, which requires the kind of ultrafast data processing that only photonic chips can provide. Now neural networks are opening up a new opportunity for photonics. Photonic neural networks leveraging silicon photonic platforms could access new regimes of ultrafast information processing for radio, control, and scientific computing.

This report elaborates the market size, market characteristics, and market growth of the Photonic Neuromorphic Chip industry, and breaks down according to the type, application, and consumption area of Photonic Neuromorphic Chip. The report also conducted a PESTEL analysis of the industry to study the main influencing factors and entry barriers of the industry.

In Chapter 3.4 of the report, the impact of the COVID-19 outbreak on the industry was fully assessed. Fully risk assessment and industry recommendations were made for Photonic Neuromorphic Chip in a special period. This chapter also compares the markets of Pre COVID-19 and Post COVID-19.

In addition, chapters 8-12 consider the impact of COVID-19 on the regional economy.

Key players in the global Photonic Neuromorphic Chip market covered in Chapter 13:

Samsung Group

Hewlett Packard Enterprise
Intel Corp
IBM Corp
BrainChip Holdings
Applied Brain Research Inc
General Vision

In Chapter 6, on the basis of types, the Photonic Neuromorphic Chip market from 2015 to 2025 is primarily split into:

Signal Processing
Data Processing
Image Recognition

In Chapter 7, on the basis of applications, the Photonic Neuromorphic Chip market from 2015 to 2025 covers:

Aerospace & Defense
IT & Telecom
Automotive
Medical
Industrial
Others

Geographically, the detailed analysis of production, trade of the following countries is covered in Chapter 4.2, 5:

United States
Europe
China
Japan
India

Geographically, the detailed analysis of consumption, revenue, market share and growth rate of the following regions are covered in Chapter 8, 9, 10, 11, 12:

North America (Covered in Chapter 8)
United States
Canada

Mexico
Europe (Covered in Chapter 9)
Germany
UK
France
Italy
Spain
Others
Asia-Pacific (Covered in Chapter 10)
China
Japan
India
South Korea
Southeast Asia
Others
Middle East and Africa (Covered in Chapter 11)
Saudi Arabia
UAE
South Africa
Others
South America (Covered in Chapter 12)
Brazil
Others

Years considered for this report:

Historical Years: 2015-2019

Base Year: 2019

Estimated Year: 2020

Forecast Period: 2020-2025

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