

# Global Photonic Neuromorphic Chip Market Research Report with Opportunities and Strategies to Boost Growth- COVID-19 Impact and Recovery

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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. Based on the Photonic Neuromorphic Chip market development status, competitive landscape and development model in different regions of the world, this report is dedicated to providing niche markets, potential risks and comprehensive competitive strategy analysis in different fields. From the competitive advantages of different types of products and services, the development opportunities and consumption characteristics and structure analysis of the downstream application fields are all analyzed in detail. To Boost Growth during the epidemic era, this report analyzes in detail for the potential risks and opportunities which can be focused on.

In Chapter 2.4 of the report, we share our perspectives for the impact of COVID-19 from the long and short term.

In chapter 3.4, we provide the influence of the crisis on the industry chain, especially for marketing channels.

In chapters 8-13, we update the timely industry economic revitalization plan of the country-wise government.

Key players in the global Photonic Neuromorphic Chip market covered in Chapter 5:

### General Vision

Samsung Group  
IBM Corp  
Applied Brain Research Inc  
Intel Corp  
Hewlett Packard Enterprise  
BrainChip Holdings

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 consumption, revenue, market share and growth rate, historic and forecast (2015-2025) of the following regions are covered in Chapter 8-13:

North America (Covered in Chapter 9)  
United States  
Canada  
Mexico  
Europe (Covered in Chapter 10)  
Germany  
UK  
France  
Italy  
Spain  
Russia  
Others  
Asia-Pacific (Covered in Chapter 11)

China  
Japan  
South Korea  
Australia  
India  
South America (Covered in Chapter 12)  
Brazil  
Argentina  
Columbia  
Middle East and Africa (Covered in Chapter 13)  
UAE  
Egypt  
South Africa

Years considered for this report:

Historical Years: 2015-2019

Base Year: 2019

Estimated Year: 2020

Forecast Period: 2020-2025

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