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Global Smart NIC Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Smart NIC market size was valued at USD 711.4 million in 2023 and is forecast to a readjusted size of USD 1727.5 million by 2030 with a CAGR of 13.5% during review period.

From a functional standpoint, NICs have historically been an essential board or chip in computing systems, enabling connectivity in networking systems. NICs, also known as network adapters, are used in computer systems, such as personal computers or servers, to establish a dedicated communication channel between the system and a data network. The NIC acts as a translator, taking host memory buffers and formatting them into structured packets for transmission over a network, usually Ethernet. The NIC also receives packets from the network and converts them into memory buffers for use by applications on the host.

A Smart NIC is a NIC with the addition of a programmable data processing unit (DPU) for network data acceleration and offload. The terms Smart NIC and DPU are often used interchangeably. Smart NICs add additional computing resources to the NIC to offload tasks from the host CPU, freeing the host CPU for more important tasks.

Global 5 largest manufacturers of Smart NIC are Marvell Technology Group, AMD, NVIDIA, Intel and Napatech, which make up about 88%. Among them, Marvell Technology Group is the leader with about 39% market share.

Americas is the largest market, with a share about 53%, followed by Asia-Pacific and Europe, with the share about 32% and 11%. In terms of product type, FPGA-based products occupy the largest share of the total market, about 94%. And in terms of product application, the largest application is Data Center, followed by Telecom.

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The Global Info Research report includes an overview of the development of the Smart NIC industry chain, the market status of Data Center (FPGA-based, Others), Telecom (FPGA-based, Others), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Smart NIC.

Regionally, the report analyzes the Smart NIC markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Smart NIC market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Smart NIC market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Smart NIC industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., FPGA-based, Others).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Smart NIC market.

Regional Analysis: The report involves examining the Smart NIC market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Smart NIC market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

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The report also involves a more granular approach to Smart NIC:

Company Analysis: Report covers individual Smart NIC manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Smart NIC This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Data Center, Telecom).

Technology Analysis: Report covers specific technologies relevant to Smart NIC. It assesses the current state, advancements, and potential future developments in Smart NIC areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Smart NIC market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Smart NIC market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

FPGA-based

Others

Market segment by Application

Data Center

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Telecom

Others

Major players covered

Marvell Technology Group

AMD

NVIDIA

Intel

Napatech

Netronome

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Smart NIC product scope, market overview, market estimation caveats and base year.

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Chapter 2, to profile the top manufacturers of Smart NIC, with price, sales, revenue and global market share of Smart NIC from 2019 to 2024.

Chapter 3, the Smart NIC competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Smart NIC breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023.and Smart NIC market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Smart NIC.

Chapter 14 and 15, to describe Smart NIC sales channel, distributors, customers, research findings and conclusion.

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