

Global 51.2T Switch ASIC 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 51.2T Switch ASIC market size was valued at US\$ 1814 million in 2023 and is forecast to a readjusted size of USD 2582 million by 2030 with a CAGR of 5.2% during review period.

The 51.2T Switch ASIC is an advanced network chip with high integration and excellent performance. With its ultra-large switching capacity of 51.2Tbps and high port rate, it provides the ultimate bandwidth support for data transmission and processing. The chip adopts a precise nano-process technology, and the number of internal transistors is as high as tens of billions. With its high efficiency and programmable characteristics, it not only realizes low-latency data exchange, but also adapts to a variety of complex application requirements. In addition, its unique simplified transceiver design and excellent energy efficiency ratio enable it to process more data traffic at the same power consumption, showing excellent performance advantages and energy efficiency.

In March 2023, Marvell launched the Teralynx 10, a programmable switch chip known as the 'lowest latency in the industry'. It is designed for the 800G era and has a switching capacity of 51.2Tbps. It aims to solve the ultra-high bandwidth needs of operators and is suitable for the leaf-spine topology of data center networks. Nvidia has launched a 51.2Tbps Switch ASIC with a port rate of 800G. It is based on a 4nm process technology and has more than 10 billion transistors built in. It is specially designed for AI applications and has a simplified transceiver design with a power of about 500W. Cisco launched the SiliconOne G200/G202 series of network chips for AI supercomputers in June 2023. The G200 has a switching capacity of 51.2Tbps and a port rate of 800G. Although the G202 has the same features as the G200, its switching performance is halved. The G200 uses a 5nm process technology with strong

controllability and programmability, which improves the flexibility of usage scenarios. In August 2022, Broadcom released the industry's first commercial 51.2T capacity switching chip Tomahawk 5, which uses a 5nm process and is manufactured by TSMC. It uses a Monolithic bare die package and consumes less than 1W per 100Gbps.

This report is a detailed and comprehensive analysis for global 51.2T Switch ASIC market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2024, are provided.

Key Features:

Global 51.2T Switch ASIC market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2019-2030

Global 51.2T Switch ASIC market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2019-2030

Global 51.2T Switch ASIC market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2019-2030

Global 51.2T Switch ASIC market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2019-2024

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 51.2T Switch ASIC

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 51.2T Switch ASIC market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Marvell, Cisco, Broadcom, Nvidia, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

51.2T Switch ASIC 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

800G

400G

Market segment by Application

Data Center Network

Industrial Internet

Others

Major players covered

Marvell

Cisco

Broadcom

Nvidia

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 51.2T Switch ASIC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 51.2T Switch ASIC, with price, sales quantity, revenue, and global market share of 51.2T Switch ASIC from 2019 to 2024.

Chapter 3, the 51.2T Switch ASIC competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 51.2T Switch ASIC 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 by Application, with sales market share and growth rate by Type, by 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 2019 to 2024. and 51.2T Switch ASIC market forecast, by regions, by Type, and by 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 51.2T Switch ASIC.

Chapter 14 and 15, to describe 51.2T Switch ASIC sales channel, distributors, customers, research findings and conclusion.

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