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Global Chip Inductors for AI Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Chip Inductors for AI competitive dynamics, regional economic interdependencies, and supply chain reconfigurations.A chip inductor is a small-sized inductor component whose structure includes a coil, magnetic core, and encapsulation layer. It functions as an energy storage device, filter, choke, and voltage regulator through electromagnetic induction. Chip inductors are a key component of chip power supply modules, storing and releasing energy through electromagnetic induction to perform filtering, voltage regulation, energy storage, and electromagnetic interference suppression. With the rapid development of the AI ??industry, data centers, AI chips, servers, and other computing infrastructure place increasing demands on electronic components such as chip inductors. Chip inductors power the front-end of chips such as GPUs, CPUs, ASICs, and FPGAs. Electronic products are developing towards higher efficiency, higher power density, and miniaturization. Chip manufacturing processes are trending towards miniaturization, and power modules are becoming smaller, lower voltage, and higher current. Chip inductors are also developing towards higher efficiency, higher power density, and miniaturization. As chip power increases, chip inductor materials are transitioning from ferrite to soft magnetic metallic materials. Soft magnetic metallic material inductors offer advantages such as high efficiency, small size, and high current response, making them more suitable for future computing applications. In 2024, global production of Chip Inductors for AI reached 120 million units, with an average selling price of $1.16 per unit and a gross margin of approximately 40.70%. Companies in this sector had a monthly production capacity of 10-15 million units in 2024, and this capacity is expected to reach 300 million units per year by 2026. Upstream raw materials include soft magnetic metal powder cores, with companies such as Dongmu Co., Ltd., Platinum Technology Co.,

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Ltd., Longci Technology Co., Ltd., and Yuean New Materials Co., Ltd. serving as downstream suppliers for AI chips, including NVIDIA, AMD, and Google.As AI chip power increases, ferrite inductors can no longer meet the demands of high current. Soft magnetic materials, particularly metallic ones, have a saturation magnetic flux density more than twice that of ferrite, thus exhibiting excellent DC superposition characteristics and making them suitable for high current applications. Furthermore, with comparable performance, soft magnetic chip inductors can reduce size by 50%-75% compared to ferrite inductors. Soft magnetic chip inductors are expected to become the mainstream inductor solution for high-power AI chips in the future; the inductors used in the NVIDIA H100 are currently examples of soft magnetic chip inductors. Major AI chip manufacturers are expected to release data center AI chips with power ratings of 700W or higher, and these chips will likely utilize soft magnetic chip inductors. Secondly, as computing power demands increasingly shift to the edge and terminal, soft magnetic chip inductors, with their miniaturization advantages, can achieve overall cost reduction, thereby replacing some of the ferrite inductor market share. Power module manufacturers are committed to miniaturization and high power density, and using soft magnetic chip inductors to replace ferrite inductors effectively achieves this goal. Metal soft magnetic chip inductor manufacturers need to obtain certification from AI chip manufacturers, which places high demands on product reliability and performance. This requires manufacturers to have deep technical expertise in two core manufacturing processes: powder preparation and integrated molding. Currently, only Platinum New Materials and Qiankun Technology can supply metal soft magnetic chip inductors for high-computing-power applications. It is difficult for new players to enter this market, and the competitive landscape is expected to remain highly concentrated in the future.

The global Chip Inductors for AI market size was estimated at USD 139.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 41.50% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Chip Inductors for AI market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

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A significant focus of this report lies in the competitive landscape of the global Chip Inductors for AI market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Chip Inductors for AI market.

Global Chip Inductors for AI Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Murata
Vishay
TDK
Taiyo Yuden
Eaton
YAGEO Corporation
KYOCERA AVX
Bourns
Shenzhen Microgate Technology Co., Ltd.
POCO Holding Co., Ltd.
Guangdong Misun Technology Co., Ltd.
Dongguan Mentech Optical and Magnetic Co., Ltd.

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Shenzhen Sunlord Electronics Co.,Ltd.
NBTM New Materials Group Co., Ltd.
Guangdong Fenghua Advanced Technology Holding Co.,Ltd.
Cyntec Co.,Ltd.
Chilisin Electronics Corp.
Sinomag Technology Co., Ltd.

Market Segmentation (by Type)

Metal Soft Magnetic Powder Core
Ferrite Core (Suitable for 300W and Below)
Other

Market Segmentation (by Application)

CPU Core Power Supply
GPU Core Power Supply
Memory and Storage
PCIe and Network Interfaces
Other

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Chip Inductors for AI Market

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Overview of the regional outlook of the Chip Inductors for AI Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Chip Inductors for AI Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future

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development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Chip Inductors for AI, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change
This enables you to anticipate market changes to remain ahead of your competitors
You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents
The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly
Provision of market value data for each segment and sub-segment
Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market
Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region
Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled
Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players
The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

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Includes in-depth analysis of the market from various perspectives through Porter?s five forces analysis
Provides insight into the market through Value Chain
Market dynamics scenario, along with growth opportunities of the market in the years to come
6-month post-sales analyst support

Customization of the Report

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