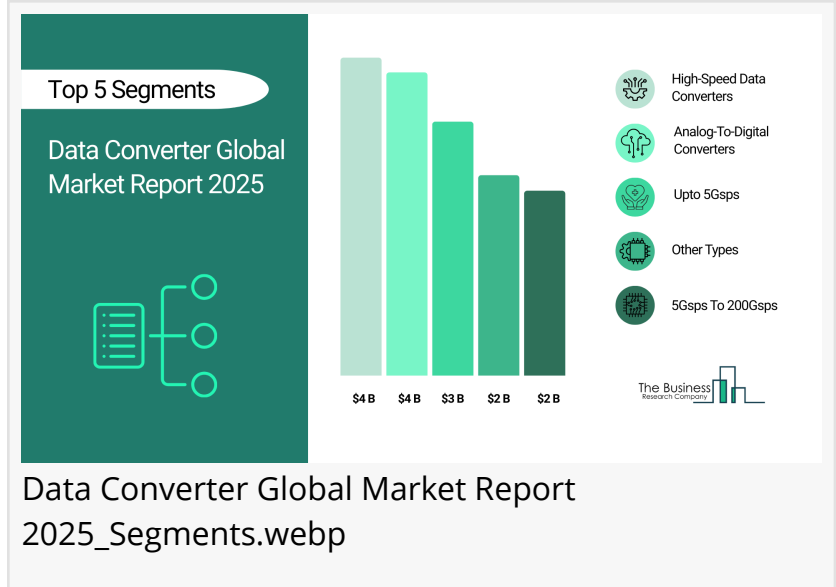


# Data Converter Market In 2029

*The Business Research Company's Data Converter Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034*

LONDON, GREATER LONDON, UNITED KINGDOM, December 24, 2025 /EINPresswire.com/ -- "Data Converter Market to Surpass \$7 billion in 2029. In comparison, the Computer Hardware market, which is considered as its parent market, is expected to be approximately \$929 billion by 2029, with Data Converter to represent around 1% of the parent market. Within the broader Information Technology industry, which is expected to be \$12,711 billion by 2029, the Data Converter market is estimated to account for nearly 0.5% of the total market value.



The Business Research Company's Latest Report Explores Market Driver, Trends, Regional Insights - Market Sizing & Forecasts Through 2034"

*The Business Research Company*

Which Will Be the [Biggest Region in the Data Converter Market in 2029](#)

Asia Pacific will be the largest region in the data converter market in 2029, valued at \$2,683 million. The market is expected to grow from \$1,600 million in 2024 at a compound annual growth rate (CAGR) of 11%. The rapid growth can be attributed to the growing aerospace and defense industries and the increasing adoption of the internet of things (IoT) devices.

Which Will Be The Largest Country In The Global Data Converter Market In 2029?

The USA will be the largest country in the data converter market in 2029, valued at \$1,587 million. The market is expected to grow from \$1,214 million in 2024 at a compound annual growth rate (CAGR) of 6%. The strong growth can be attributed to the increasing number of data centers and the expansion of 5G networks.

Request a free sample of the Data Converter Market report

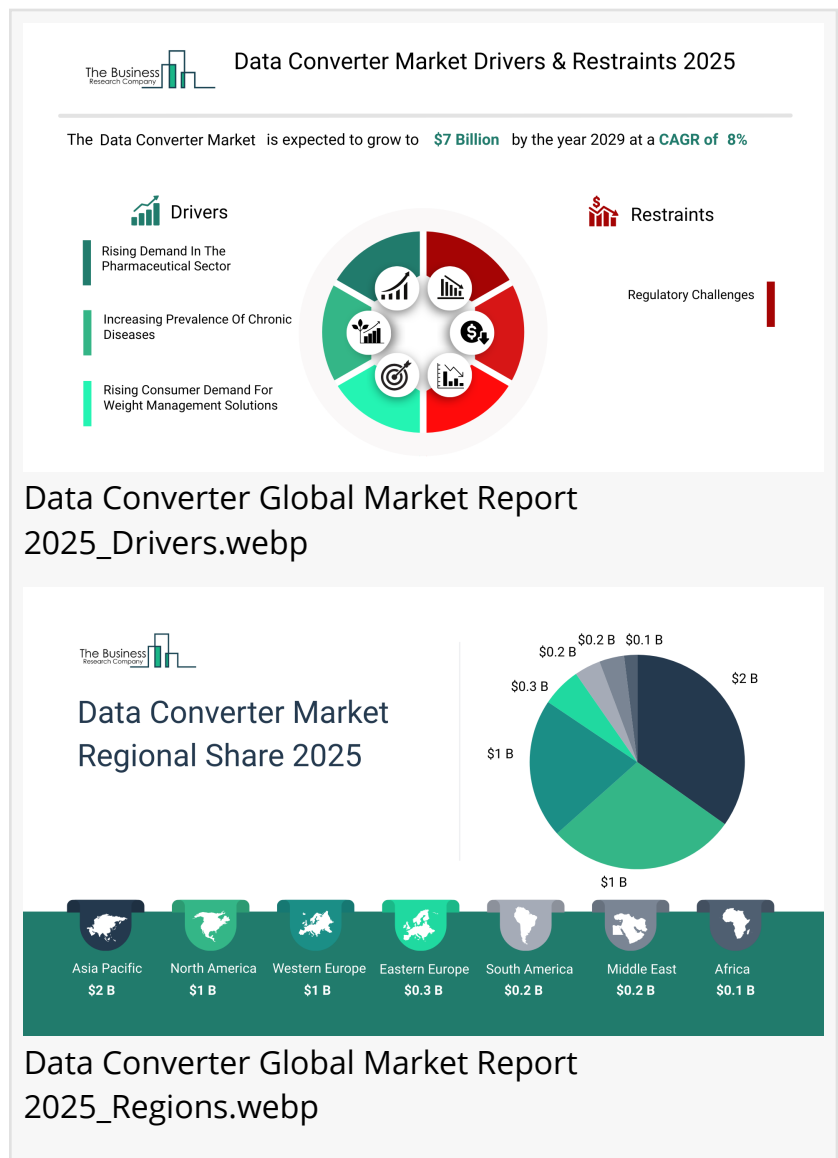
[https://www.thebusinessresearchcompany.com/sample\\_request?id=6988&type=smp](https://www.thebusinessresearchcompany.com/sample_request?id=6988&type=smp)

## What will be Largest Segment in the Data Converter Market in 2029?

The data converter market is segmented by type into analog-to-digital converters and digital-to-analog converters. The analog-to-digital converters market will be the largest segment of the data converter market segmented by type, accounting for 66% or \$4,614 million of the total in 2029. The analog-to-digital converters market will be supported by increasing demand for high-precision signal conversion in modern electronic devices, rapid advancements in semiconductor technology enabling smaller and more efficient converters, the growing adoption in telecommunications for accurate digital signal processing, the rise of IoT devices requiring enhanced data transmission capabilities, the need for high-speed and low-latency data conversion in consumer electronics and continuous innovations in digital signal processing algorithms that improve ADC performance.

The data converter market is segmented by sampling rate into high-speed data converters and general-purpose data converters. The high-speed data converters market will be the largest segment of the data converter market segmented by sampling rate, accounting for 73% or \$5,081 million of the total in 2029. The high-speed data converters market will be supported by continuous improvements in data transmission speeds in communication systems, increasing demand for real-time signal processing in radar and satellite communications, the expansion of high-frequency applications in the defense sector, the need for faster and more reliable data conversion in consumer electronics, advancements in semiconductor manufacturing allowing faster converter speeds and the growing adoption of 5G and other high-speed wireless communication technologies.

The data converter market is segmented by rate type into up to 5Gsp/s and 5Gsp/s to 200Gsp/s. The up to 5Gsp/s market will be the largest segment of the data converter market segmented by rate type, accounting for 54% or \$3,760 million of the total in 2029. The up to 5Gsp/s market will



be supported by the growing demand for high-speed data acquisition in scientific research and industrial applications, the rise of real-time data processing systems that require high sampling rates, the need for precision in communication technologies such as 5G networks, advancements in high-speed signal processing hardware and software, the increasing use of high-frequency applications in defense and aerospace and the rapid development of high-performance measurement instruments for electronics testing and diagnostics.

The data converter market is segmented by power consumption into low (<100 mW), medium (100 mW-1W) and high (>1 W). The low (<100 mW) market will be the largest segment of the data converter market segmented by power consumption, accounting for 45% or \$3,106 million of the total in 2029. The low (<100 mW) market will be supported by increasing demand for energy-efficient electronic devices, the rise of portable and wearable consumer electronics requiring low power consumption, advancements in low-power converter designs that extend battery life, the growing trend of miniaturization in electronics requiring compact and efficient converters, the need for low-power solutions in Internet of Things (IoT) devices and the increasing adoption of green technologies and environmental regulations driving energy efficiency.

The data converter market is segmented by application into communications, automotive, consumer electronics, industrial process control and automation, medical, testing and measurement and other applications. The consumer electronics market will be the largest segment of the data converter market segmented by application, accounting for 25% or \$1,736 million of the total in 2029. The consumer electronics market will be supported by the rising demand for high-definition audio and video output in smartphones, laptops and gaming devices, the continuous evolution of smart home devices that require advanced signal processing, the growing trend of ultra-high-definition displays and advanced sound systems, the increasing adoption of wearable devices such as smartwatches requiring precise data conversion, advancements in home entertainment systems and virtual reality technologies and the expanding market for advanced consumer electronics that require efficient power management.

What is the expected CAGR for the Data Converter Market leading up to 2029?

The expected CAGR for the data converter market leading up to 2029 is 8%.

What Will Be The Growth Driving Factors In The Global Data Converter Market In The Forecast Period? The rapid growth of the global data converter market leading up to 2029 will be driven by the following key factors that are expected to reshape signal processing technologies, high-performance electronic systems, and next-generation communication infrastructure worldwide.

**Increasing Adoption Of 5G Networks** - The increasing adoption of 5G networks will become a key driver of growth in the data converter market by 2029. 5G networks rely on advanced communication technologies that require precise signal processing and data conversion. Data converters, particularly high-speed analog-to-digital converters (ADCs) and digital-to-analog

converters (DACs), are essential for handling the massive data rates and ensuring smooth communication between devices. As 5G expands, there is a need for robust data converters to manage the increased bandwidth and handle the higher frequencies involved in 5G signals. As a result, the increasing adoption of 5G networks is anticipated to contributing to annual growth in the market.

**Increasing Adoption Of Smartphones** - The increasing adoption of smartphones will emerge as a major factor driving the expansion of the data converter market by 2029. Smartphones integrate multiple sensors, cameras, displays and wireless modules, each of which requires efficient data conversion to ensure accurate data processing. The camera modules in smartphones use analog-to-digital converters (ADCs) to convert analog signals from the camera sensors into digital data for image processing. Similarly, high-quality audio output requires DACs to convert digital signals into analog sound. Consequently, the increasing adoption of smartphones is projected to contributing to annual growth in the market.

**Increasing Number Of Data Centers**- The increasing number of data centers within digital manufacturing processes will serve as a key growth catalyst for the data converter market by 2029. The increase in edge data centers brings computing power closer to users, reducing latency and enhancing real-time application performance. Meeting the rising demand for faster data processing, these centers support hyperscale edge computing, enabling efficient data handling and driving advancements in industries reliant on real-time processing. Therefore, the increasing number of data centers is projected to supporting to annual growth in the market.

Access the detailed Data Converter Market report here:

<https://www.thebusinessresearchcompany.com/report/data-converter-global-market-report>

What Are The [Key Growth Opportunities In The Data Converter Market in 2029?](#)

The most significant growth opportunities are anticipated in the high-speed data converters market, the analog-to-digital data conversion market, the 5Gsps–200Gsps signal processing data converter market, the low-energy (<100 mw) data converter solutions market, and the data converter for consumer electronics market. Collectively, these segments are projected to contribute over \$6 billion in market value by 2029, driven by rapid advancements in high-speed communication standards, increasing demand for precise and energy-efficient signal conversion, and the expanding integration of data converters in next-generation electronics. This growth underscores the rising adoption of cutting-edge conversion technologies that support real-time data processing, ultra-low latency, and enhanced device performance across telecommunications, automotive electronics, industrial systems, and consumer devices driving transformative momentum within the global data converter landscape.

The high-speed data converters market is projected to grow by \$1,683 million, the analog-to-digital data conversion market by \$1,325 million, the 5Gsps–200Gsps signal processing market by \$1,077 million, the low-energy (<100 mw) data converter solutions market by \$947 million, and the data converter-enabled consumer electronics market by \$654 million over the next five

years from 2024 to 2029.

The Business Research Company ([www.thebusinessresearchcompany.com](http://www.thebusinessresearchcompany.com)) is a leading market intelligence firm renowned for its expertise in company, market, and consumer research. We have published over 17,500 reports across 27 industries and 60+ geographies. Our research is powered by 1,500,000 datasets, extensive secondary research, and exclusive insights from interviews with industry leaders.

We provide continuous and custom research services, offering a range of specialized packages tailored to your needs, including Market Entry Research Package, Competitor Tracking Package, Supplier & Distributor Package and much more

Disclaimer: Please note that the findings, conclusions and recommendations that TBRC Business Research Pvt Ltd delivers are based on information gathered in good faith from both primary and secondary sources, whose accuracy we are not always in a position to guarantee. As such TBRC Business Research Pvt Ltd can accept no liability whatever for actions taken based on any information that may subsequently prove to be incorrect. Analysis and findings included in TBRC reports and presentations are our estimates, opinions and are not intended as statements of fact or investment guidance.

The Business Research Company  
Americas +1 310-496-7795  
Europe +44 7882 955267  
Asia & Others +44 7882 955267 & +91 8897263534  
Email: [info@tbrc.info](mailto:info@tbrc.info)"

Oliver Guirdham  
The Business Research Company  
+44 7882 955267  
[info@tbrc.info](mailto:info@tbrc.info)

Visit us on social media:

[LinkedIn](#)

[Facebook](#)

[X](#)

---

This press release can be viewed online at: <https://www.einpresswire.com/article/877803888>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2025 Newsmatics Inc. All Right Reserved.