

Data Converter Market Size and Forecast (2020 - 2030), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Type (ADC and DAC), Resolution (10 Bit, 12 Bit, 14 Bit, 16 Bit, and Others), Rate of Converter (Upto 50 Msps, 51 to 100 Msps, 101 to 200 Msps, 201 to 500 Msps, 501 Msps to 1 Gsps, and Above 1 Gsps), End User (Automotive, Communications, Consumer Electronics, Industrial, Medical, and Others), and Geography (North America, Europe, Asia Pacific, Middle East & Africa, and South & Central America)

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Abstracts

The data converter market size was valued at US\$ 5.36 billion in 2022 and is expected to reach US\$ 10.06 billion by 2030; it is estimated to record a CAGR of 8.2% from 2022 to 2030. The report includes growth prospects owing to the current data converter market trends and their foreseeable impact during the forecast period.

Europe accounted for the third largest data market share after APAC in 2022. The huge presence of data converter manufacturers across the region is one of the factors contributing to the growth of the market in Europe. NXP Semiconductors and STMicroelectronics are among the major players operating in the region. Additionally, the rising demand for consumer electronic devices in Europe bolsters the need for data converters across the region. In November 2023, BTECH Germany (One of Germany's leading consumer electronics and appliance companies with a global presence) unveiled a range of bespoke home appliances and consumer electronic products, which

the company says are all carefully designed for the Nigerian market. All these factors contribute to the data converter market growth in Europe.

The data converter market in APAC is expected to grow at the highest CAGR during the forecast period. China and India have many domestic manufacturers of data converters, which are boosting the growth of the APAC market. Also, the growing telecom, automotive, and consumer electronics sectors in APAC and rising investments by the governments in the expansion of the semiconductor industry in the region boost the regional data converter market growth.

Pertaining to the fact that data converters have their usage in the industrial sector, countries such as China, the US, Japan, Germany, India, South Korea, Italy, France, the UK, and Indonesia persist with an opportunity to witness more demand for the same. The mentioned countries are amongst the top manufacturing countries across the globe. Favorable government support for strengthening the industrial sector, growing economy, and increasing technology integration in systems used in industrial plants are among the factors contributing towards positioning the countries above in the top list. The growing industrial sector is anticipated to provide lucrative business opportunities for data converter companies to address more industrial requirements.

The growing industrial sector is one of the key factors assisting the growth of the data converter market share of MEA and SAM. The expanding consumer electronics industry propels the need for data converters in consumer electronics such as audio/video devices, cell phones, PLCs, digital multimeters, and CMOS image sensors for mobile applications. Further, growing demand for communication, 5G, RADAR processing, medical imaging, and ADAS systems is expected to generate lucrative business opportunities for data converter market players during the forecast period.

Data Converter Market Analysis of Segments:

The “data converter market analysis” has been carried out by considering the following segments: type, resolution, rate of converter, and application. Based on type, the market is bifurcated into ADC and DAC. By resolution, the market is segmented into 10 bit, 12 bit, 14 bit, 16 bit, and others. The data converter market, based on rate of converter, is segmented into up to 50Msps, 51Msps to 100Msps, 101Msps to 200Msps, 201Msps to 500Msps, 501Msps to 1Gsps, and above 1Gsps. By end user, the market is segmented into automotive, communications, consumer electronics, industrial, medical, and others.

Data Converter Market Competitive Landscape and Key Developments

The data converter market report consists company profiling of major players such as Asahi Kasei Microdevices Corporation; Analog Devices, Inc.; CIRRUS LOGIC, INC.; Microchip Technology Inc.; Semiconductor Components Industries, LLC; ROHM CO., LTD.; Renesas Electronics Corporation; STMicroelectronics N.V; Texas Instruments Incorporated; and Teledyne Technologies Inc. Several other essential data converter market players were analyzed to get a holistic view of the market and its ecosystem. The data converter market forecast can help stakeholders plan their growth strategies.

Contents

1. INTRODUCTION

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

4. DATA CONVERTER MARKET LANDSCAPE

- 4.1 Overview
- 4.2 PEST Analysis
- 4.3 Ecosystem Analysis
 - 4.3.1 List of Vendors in the Value Chain

5. DATA CONVERTER MARKET – KEY MARKET DYNAMICS

- 5.1 Data Converter Market – Key Market Dynamics
- 5.2 Market Drivers
 - 5.2.1 Increasing Demand for Testing and Measurement by End Users
 - 5.2.2 Rising Demand for Data Converters in Wireless Communications
 - 5.2.3 Increasing Product Launches
- 5.3 Market Restraints
 - 5.3.1 Complex Design of ADCs
 - 5.3.2 Fluctuations in Cost of Raw Materials
- 5.4 Market Opportunities
 - 5.4.1 Potential Use of IoT Devices and Data Consumption
 - 5.4.2 Growing Use of Data Converters in Developing Advanced 5G Infrastructure
- 5.5 Future Trends

- 5.5.1 Rise of High-Speed Data Converters
- 5.6 Impact of Drivers and Restraints:

6. DATA CONVERTER MARKET – GLOBAL MARKET ANALYSIS

- 6.1 Data Converter Market Revenue (US\$ Million), 2022 – 2030
- 6.2 Data Converter Market Forecast Analysis

7. DATA CONVERTER MARKET ANALYSIS – BY TYPE

- 7.1 ADC
 - 7.1.1 Overview
 - 7.1.2 ADC: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)
- 7.2 DAC
 - 7.2.1 Overview
 - 7.2.2 DAC: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)

8. DATA CONVERTER MARKET ANALYSIS – BY RESOLUTION

- 8.1 Bit
 - 8.1.1 Overview
 - 8.1.2 Bit: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)
- 8.2 Bit
 - 8.2.1 Overview
 - 8.2.2 Bit: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)
- 8.3 Bit
 - 8.3.1 Overview
 - 8.3.2 Bit: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)
- 8.4 Bit
 - 8.4.1 Overview
 - 8.4.2 Bit: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)
- 8.5 Others
 - 8.5.1 Overview
 - 8.5.2 Others: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)
- 8.6 Data Converter Market Revenue and Forecast to 2030 (US\$ Mn) – Resolution, By Rate of Converter

9. DATA CONVERTER MARKET ANALYSIS – BY RATE OF CONVERTER

9.1 Upto 50 Msps

9.1.1 Overview

9.1.2 Upto 50 Msps: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)

9.2 to 100 Msps

9.2.1 Overview

9.2.2 to 100 Msps: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)

9.3 to 200 Msps

9.3.1 Overview

9.3.2 to 200 Msps: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)

9.4 to 500 Msps

9.4.1 Overview

9.4.2 to 500 Msps: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)

9.5 Msps to 1 Gbps

9.5.1 Overview

9.5.2 Msps to 1 Gbps: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)

9.6 Above 1 Gbps

9.6.1 Overview

9.6.2 Above 1 Gbps: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)

10. DATA CONVERTER MARKET ANALYSIS – BY END-USER

10.1 Automotive

10.1.1 Overview

10.1.2 Automotive: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)

10.2 Communications

10.2.1 Overview

10.2.2 Communications: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)

10.3 Consumer Electronics

10.3.1 Overview

10.3.2 Consumer Electronics: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)

10.4 Industrial

10.4.1 Overview

10.4.2 Industrial: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)

10.5 Medical

10.5.1 Overview

10.5.2 Medical: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)

10.6 Others

10.6.1 Overview

10.6.2 Others: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)

11. DATA CONVERTER MARKET – GEOGRAPHICAL ANALYSIS

11.1 Overview

11.2 North America

11.2.1 North America Data Converter Market Overview

11.2.2 North America: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)

11.2.3 North America: Data Converter Market Breakdown, by Type

11.2.3.1 North America: Data Converter Market – Revenue and Forecast Analysis – by Type

11.2.4 North America: Data Converter Market Breakdown, by Resolution

11.2.4.1 North America: Data Converter Market – Revenue and Forecast Analysis – by Resolution

11.2.4.1.1 North America Data Converter Market Revenue and Forecast to 2030 (US\$ Mn) – Resolution, By Rate of Converter

11.2.5 North America: Data Converter Market Breakdown, by Rate Of Converter

11.2.5.1 North America: Data Converter Market – Revenue and Forecast Analysis – by Rate Of Converter

11.2.6 North America: Data Converter Market Breakdown, by End-user

11.2.6.1 North America: Data Converter Market – Revenue and Forecast Analysis – by End-user

11.2.7 North America: Data Converter Market – Revenue and Forecast Analysis – by Country

11.2.7.1 North America: Data Converter Market – Revenue and Forecast Analysis – by Country

11.2.7.2 United States: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)

11.2.7.2.1 United States: Data Converter Market Breakdown, by Type

- 11.2.7.2.2 United States: Data Converter Market Breakdown, by Resolution
- 11.2.7.2.3 United States: Data Converter Market Breakdown, by Rate Of Converter
- 11.2.7.2.4 United States: Data Converter Market Breakdown, by End-user
- 11.2.7.3 Canada: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)
 - 11.2.7.3.1 Canada: Data Converter Market Breakdown, by Type
 - 11.2.7.3.2 Canada: Data Converter Market Breakdown, by Resolution
 - 11.2.7.3.3 Canada: Data Converter Market Breakdown, by Rate Of Converter
 - 11.2.7.3.4 Canada: Data Converter Market Breakdown, by End-user
- 11.2.7.4 Mexico: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)
 - 11.2.7.4.1 Mexico: Data Converter Market Breakdown, by Type
 - 11.2.7.4.2 Mexico: Data Converter Market Breakdown, by Resolution
 - 11.2.7.4.3 Mexico: Data Converter Market Breakdown, by Rate Of Converter
 - 11.2.7.4.4 Mexico: Data Converter Market Breakdown, by End-user
- 11.3 Europe
 - 11.3.1 Europe Data Converter Market Overview
 - 11.3.2 Europe: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)
 - 11.3.3 Europe: Data Converter Market Breakdown, by Type
 - 11.3.3.1 Europe: Data Converter Market – Revenue and Forecast Analysis – by Type
 - 11.3.4 Europe: Data Converter Market Breakdown, by Resolution
 - 11.3.4.1 Europe: Data Converter Market – Revenue and Forecast Analysis – by Resolution
 - 11.3.4.1.1 Europe Data Converter Market Revenue and Forecast to 2030 (US\$ Mn) – Resolution, By Rate of Converter
 - 11.3.5 Europe: Data Converter Market Breakdown, by Rate Of Converter
 - 11.3.5.1 Europe: Data Converter Market – Revenue and Forecast Analysis – by Rate Of Converter
 - 11.3.6 Europe: Data Converter Market Breakdown, by End-user
 - 11.3.6.1 Europe: Data Converter Market – Revenue and Forecast Analysis – by End-user
 - 11.3.7 Europe: Data Converter Market – Revenue and Forecast Analysis – by Country
 - 11.3.7.1 Europe: Data Converter Market – Revenue and Forecast Analysis – by Country
 - 11.3.7.2 Germany: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)
 - 11.3.7.2.1 Germany: Data Converter Market Breakdown, by Type
 - 11.3.7.2.2 Germany: Data Converter Market Breakdown, by Resolution
 - 11.3.7.2.3 Germany: Data Converter Market Breakdown, by Rate Of Converter

- 11.3.7.2.4 Germany: Data Converter Market Breakdown, by End-user
- 11.3.7.3 United Kingdom: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)
 - 11.3.7.3.1 United Kingdom: Data Converter Market Breakdown, by Type
 - 11.3.7.3.2 United Kingdom: Data Converter Market Breakdown, by Resolution
 - 11.3.7.3.3 United Kingdom: Data Converter Market Breakdown, by Rate Of Converter
 - 11.3.7.3.4 United Kingdom: Data Converter Market Breakdown, by End-user
- 11.3.7.4 France: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)
 - 11.3.7.4.1 France: Data Converter Market Breakdown, by Type
 - 11.3.7.4.2 France: Data Converter Market Breakdown, by Resolution
 - 11.3.7.4.3 France: Data Converter Market Breakdown, by Rate Of Converter
 - 11.3.7.4.4 France: Data Converter Market Breakdown, by End-user
- 11.3.7.5 Italy: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)
 - 11.3.7.5.1 Italy: Data Converter Market Breakdown, by Type
 - 11.3.7.5.2 Italy: Data Converter Market Breakdown, by Resolution
 - 11.3.7.5.3 Italy: Data Converter Market Breakdown, by Rate Of Converter
 - 11.3.7.5.4 Italy: Data Converter Market Breakdown, by End-user
- 11.3.7.6 Russia: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)
 - 11.3.7.6.1 Russia: Data Converter Market Breakdown, by Type
 - 11.3.7.6.2 Russia: Data Converter Market Breakdown, by Resolution
 - 11.3.7.6.3 Russia: Data Converter Market Breakdown, by Rate Of Converter
 - 11.3.7.6.4 Russia: Data Converter Market Breakdown, by End-user
- 11.3.7.7 Rest of Europe: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)
 - 11.3.7.7.1 Rest of Europe: Data Converter Market Breakdown, by Type
 - 11.3.7.7.2 Rest of Europe: Data Converter Market Breakdown, by Resolution
 - 11.3.7.7.3 Rest of Europe: Data Converter Market Breakdown, by Rate Of Converter
 - 11.3.7.7.4 Rest of Europe: Data Converter Market Breakdown, by End-user
- 11.4 Asia Pacific
 - 11.4.1 Asia Pacific Data Converter Market Overview
 - 11.4.2 Asia Pacific: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)
 - 11.4.3 Asia Pacific: Data Converter Market Breakdown, by Type
 - 11.4.3.1 Asia Pacific: Data Converter Market – Revenue and Forecast Analysis – by Type

11.4.4 Asia Pacific: Data Converter Market Breakdown, by Resolution

11.4.4.1 Asia Pacific: Data Converter Market – Revenue and Forecast Analysis – by Resolution

11.4.4.1.1 Asia Pacific Data Converter Market Revenue and Forecast to 2030 (US\$ Mn) – Resolution, By Rate of Converter

11.4.5 Asia Pacific: Data Converter Market Breakdown, by Rate Of Converter

11.4.5.1 Asia Pacific: Data Converter Market – Revenue and Forecast Analysis – by Rate Of Converter

11.4.6 Asia Pacific: Data Converter Market Breakdown, by End-user

11.4.6.1 Asia Pacific: Data Converter Market – Revenue and Forecast Analysis – by End-user

11.4.7 Asia Pacific: Data Converter Market – Revenue and Forecast Analysis – by Country

11.4.7.1 Asia Pacific: Data Converter Market – Revenue and Forecast Analysis – by Country

11.4.7.2 China: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)

11.4.7.2.1 China: Data Converter Market Breakdown, by Type

11.4.7.2.2 China: Data Converter Market Breakdown, by Resolution

11.4.7.2.3 China: Data Converter Market Breakdown, by Rate Of Converter

11.4.7.2.4 China: Data Converter Market Breakdown, by End-user

11.4.7.3 Japan: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)

11.4.7.3.1 Japan: Data Converter Market Breakdown, by Type

11.4.7.3.2 Japan: Data Converter Market Breakdown, by Resolution

11.4.7.3.3 Japan: Data Converter Market Breakdown, by Rate Of Converter

11.4.7.3.4 Japan: Data Converter Market Breakdown, by End-user

11.4.7.4 South Korea: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)

11.4.7.4.1 South Korea: Data Converter Market Breakdown, by Type

11.4.7.4.2 South Korea: Data Converter Market Breakdown, by Resolution

11.4.7.4.3 South Korea: Data Converter Market Breakdown, by Rate Of Converter

11.4.7.4.4 South Korea: Data Converter Market Breakdown, by End-user

11.4.7.5 India: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)

11.4.7.5.1 India: Data Converter Market Breakdown, by Type

11.4.7.5.2 India: Data Converter Market Breakdown, by Resolution

11.4.7.5.3 India: Data Converter Market Breakdown, by Rate Of Converter

11.4.7.5.4 India: Data Converter Market Breakdown, by End-user

11.4.7.6 Australia: Data Converter Market – Revenue and Forecast to 2030 (US\$

Million)

- 11.4.7.6.1 Australia: Data Converter Market Breakdown, by Type
- 11.4.7.6.2 Australia: Data Converter Market Breakdown, by Resolution
- 11.4.7.6.3 Australia: Data Converter Market Breakdown, by Rate Of Converter
- 11.4.7.6.4 Australia: Data Converter Market Breakdown, by End-user
- 11.4.7.7 Rest of APAC: Data Converter Market – Revenue and Forecast to 2030

(US\$ Million)

- 11.4.7.7.1 Rest of APAC: Data Converter Market Breakdown, by Type
- 11.4.7.7.2 Rest of APAC: Data Converter Market Breakdown, by Resolution
- 11.4.7.7.3 Rest of APAC: Data Converter Market Breakdown, by Rate Of Converter
- 11.4.7.7.4 Rest of APAC: Data Converter Market Breakdown, by End-user

11.5 Middle East and Africa

- 11.5.1 Middle East and Africa Data Converter Market Overview
- 11.5.2 Middle East and Africa: Data Converter Market – Revenue and Forecast to

2030 (US\$ Million)

- 11.5.3 Middle East and Africa: Data Converter Market Breakdown, by Type
- 11.5.3.1 Middle East and Africa: Data Converter Market – Revenue and Forecast

Analysis – by Type

- 11.5.4 Middle East and Africa: Data Converter Market Breakdown, by Resolution
- 11.5.4.1 Middle East and Africa: Data Converter Market – Revenue and Forecast

Analysis – by Resolution

11.5.4.1.1 Middle East and Africa Data Converter Market Revenue and Forecast to 2030 (US\$ Mn) – Resolution, By Rate of Converter

11.5.5 Middle East and Africa: Data Converter Market Breakdown, by Rate Of Converter

11.5.5.1 Middle East and Africa: Data Converter Market – Revenue and Forecast Analysis – by Rate Of Converter

- 11.5.6 Middle East and Africa: Data Converter Market Breakdown, by End-user

11.5.6.1 Middle East and Africa: Data Converter Market – Revenue and Forecast Analysis – by End-user

11.5.7 Middle East and Africa: Data Converter Market – Revenue and Forecast Analysis – by Country

11.5.7.1 Middle East and Africa: Data Converter Market – Revenue and Forecast Analysis – by Country

11.5.7.2 Saudi Arabia: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)

- 11.5.7.2.1 Saudi Arabia: Data Converter Market Breakdown, by Type
- 11.5.7.2.2 Saudi Arabia: Data Converter Market Breakdown, by Resolution
- 11.5.7.2.3 Saudi Arabia: Data Converter Market Breakdown, by Rate Of Converter

- 11.5.7.2.4 Saudi Arabia: Data Converter Market Breakdown, by End-user
- 11.5.7.3 United Arab Emirates: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)
 - 11.5.7.3.1 United Arab Emirates: Data Converter Market Breakdown, by Type
 - 11.5.7.3.2 United Arab Emirates: Data Converter Market Breakdown, by Resolution
 - 11.5.7.3.3 United Arab Emirates: Data Converter Market Breakdown, by Rate Of Converter
 - 11.5.7.3.4 United Arab Emirates: Data Converter Market Breakdown, by End-user
- 11.5.7.4 South Africa: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)
 - 11.5.7.4.1 South Africa: Data Converter Market Breakdown, by Type
 - 11.5.7.4.2 South Africa: Data Converter Market Breakdown, by Resolution
 - 11.5.7.4.3 South Africa: Data Converter Market Breakdown, by Rate Of Converter
 - 11.5.7.4.4 South Africa: Data Converter Market Breakdown, by End-user
- 11.5.7.5 Rest of Middle East and Africa: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)
 - 11.5.7.5.1 Rest of Middle East and Africa: Data Converter Market Breakdown, by Type
 - 11.5.7.5.2 Rest of Middle East and Africa: Data Converter Market Breakdown, by Resolution
 - 11.5.7.5.3 Rest of Middle East and Africa: Data Converter Market Breakdown, by Rate Of Converter
 - 11.5.7.5.4 Rest of Middle East and Africa: Data Converter Market Breakdown, by End-user
- 11.6 South and Central America
 - 11.6.1 South and Central America Data Converter Market Overview
 - 11.6.2 South and Central America: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)
 - 11.6.3 South and Central America: Data Converter Market Breakdown, by Type
 - 11.6.3.1 South and Central America: Data Converter Market – Revenue and Forecast Analysis – by Type
 - 11.6.4 South and Central America: Data Converter Market Breakdown, by Resolution
 - 11.6.4.1 South and Central America: Data Converter Market – Revenue and Forecast Analysis – by Resolution
 - 11.6.4.1.1 South and Central America Data Converter Market Revenue and Forecast to 2030 (US\$ Mn) – Resolution, By Rate of Converter
 - 11.6.5 South and Central America: Data Converter Market Breakdown, by Rate Of Converter
 - 11.6.5.1 South and Central America: Data Converter Market – Revenue and Forecast

Analysis – by Rate Of Converter

11.6.6 South and Central America: Data Converter Market Breakdown, by End-user

11.6.6.1 South and Central America: Data Converter Market – Revenue and Forecast Analysis – by End-user

11.6.7 South and Central America: Data Converter Market – Revenue and Forecast Analysis – by Country

11.6.7.1 South and Central America: Data Converter Market – Revenue and Forecast Analysis – by Country

11.6.7.2 Brazil: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)

11.6.7.2.1 Brazil: Data Converter Market Breakdown, by Type

11.6.7.2.2 Brazil: Data Converter Market Breakdown, by Resolution

11.6.7.2.3 Brazil: Data Converter Market Breakdown, by Rate Of Converter

11.6.7.2.4 Brazil: Data Converter Market Breakdown, by End-user

11.6.7.3 Argentina: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)

11.6.7.3.1 Argentina: Data Converter Market Breakdown, by Type

11.6.7.3.2 Argentina: Data Converter Market Breakdown, by Resolution

11.6.7.3.3 Argentina: Data Converter Market Breakdown, by Rate Of Converter

11.6.7.3.4 Argentina: Data Converter Market Breakdown, by End-user

11.6.7.4 Rest of South and Central America: Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)

11.6.7.4.1 Rest of South and Central America: Data Converter Market Breakdown, by Type

11.6.7.4.2 Rest of South and Central America: Data Converter Market Breakdown, by Resolution

11.6.7.4.3 Rest of South and Central America: Data Converter Market Breakdown, by Rate Of Converter

11.6.7.4.4 Rest of South and Central America: Data Converter Market Breakdown, by End-user

12. COMPETITIVE LANDSCAPE

12.1 Heat Map Analysis By Key Players

12.2 Company Positioning & Concentration

13. INDUSTRY LANDSCAPE

13.1 Overview

13.2 Market Initiative

13.3 Product Development

14. COMPANY PROFILES

14.1 Texas Instruments Inc

14.1.1 Key Facts

14.1.2 Business Description

14.1.3 Products and Services

14.1.4 Financial Overview

14.1.5 SWOT Analysis

14.1.6 Key Developments

14.2 STMicroelectronics NV

14.2.1 Key Facts

14.2.2 Business Description

14.2.3 Products and Services

14.2.4 Financial Overview

14.2.5 SWOT Analysis

14.2.6 Key Developments

14.3 Renesas Electronics Corp

14.3.1 Key Facts

14.3.2 Business Description

14.3.3 Products and Services

14.3.4 Financial Overview

14.3.5 SWOT Analysis

14.3.6 Key Developments

14.4 ROHM Co Ltd

14.4.1 Key Facts

14.4.2 Business Description

14.4.3 Products and Services

14.4.4 Financial Overview

14.4.5 SWOT Analysis

14.4.6 Key Developments

14.5 Analog Devices Inc

14.5.1 Key Facts

14.5.2 Business Description

14.5.3 Products and Services

14.5.4 Financial Overview

14.5.5 SWOT Analysis

14.5.6 Key Developments

- 14.6 Cirrus Logic Inc
 - 14.6.1 Key Facts
 - 14.6.2 Business Description
 - 14.6.3 Products and Services
 - 14.6.4 Financial Overview
 - 14.6.5 SWOT Analysis
 - 14.6.6 Key Developments
- 14.7 Asahi Kasei Microdevices Corp
 - 14.7.1 Key Facts
 - 14.7.2 Business Description
 - 14.7.3 Products and Services
 - 14.7.4 Financial Overview
 - 14.7.5 SWOT Analysis
 - 14.7.6 Key Developments
- 14.8 Microchip Technology Inc
 - 14.8.1 Key Facts
 - 14.8.2 Business Description
 - 14.8.3 Products and Services
 - 14.8.4 Financial Overview
 - 14.8.5 SWOT Analysis
 - 14.8.6 Key Developments
- 14.9 On Semiconductor Corp
 - 14.9.1 Key Facts
 - 14.9.2 Business Description
 - 14.9.3 Products and Services
 - 14.9.4 Financial Overview
 - 14.9.5 SWOT Analysis
 - 14.9.6 Key Developments
- 14.10 Teledyne Technologies Inc
 - 14.10.1 Key Facts
 - 14.10.2 Business Description
 - 14.10.3 Products and Services
 - 14.10.4 Financial Overview
 - 14.10.5 SWOT Analysis
 - 14.10.6 Key Developments

15. APPENDIX

15.1 Word Index

15.2 About The Insight Partners

List Of Tables

LIST OF TABLES

Table 1. Data Converter Market Segmentation

Table 2. List of Vendors

Table 3. Data Converter Market – Revenue and Forecast to 2030 (US\$ Million)

Table 4. Data Converter Market – Revenue and Forecast to 2030 (US\$ Million) – by Type

Table 5. Data Converter Market – Revenue and Forecast to 2030 (US\$ Million) – by Resolution

Table 6. Data Converter Market – Revenue and Forecast to 2030 (US\$ Million) – by Rate Of Converter

Table 7. Data Converter Market – Revenue and Forecast to 2030 (US\$ Million) – by End-user

Table 8. North America: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by Type

Table 9. North America: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by Resolution

Table 10. North America: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by Rate Of Converter

Table 11. North America: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by End-user

Table 12. North America: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by Country

Table 13. United States: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by Type

Table 14. United States: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by Resolution

Table 15. United States: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by Rate Of Converter

Table 16. United States: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by End-user

Table 17. Canada: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by Type

Table 18. Canada: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by Resolution

Table 19. Canada: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by Rate Of Converter

Table 20. Canada: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by End-user

Table 21. Mexico: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by Type

Table 22. Mexico: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by Resolution

Table 23. Mexico: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by Rate Of Converter

Table 24. Mexico: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by End-user

Table 25. Europe: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by Type

Table 26. Europe: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by Resolution

Table 27. Europe: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by Rate Of Converter

Table 28. Europe: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by End-user

Table 29. Europe: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by Country

Table 30. Germany: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by Type

Table 31. Germany: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by Resolution

Table 32. Germany: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by Rate Of Converter

Table 33. Germany: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by End-user

Table 34. United Kingdom: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by Type

Table 35. United Kingdom: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by Resolution

Table 36. United Kingdom: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by Rate Of Converter

Table 37. United Kingdom: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by End-user

Table 38. France: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) – by Type

Table 39. France: Data Converter Market – Revenue and Forecast to 2030(US\$ Million)

– by Resolution

Table 40. France: Data Converter Market – Revenue and Forecast to 2030(US\$ Million)

– by Rate Of Converter

Table 41. France: Data Converter Market – Revenue and Forecast to 2030(US\$ Million)

– by End-user

Table 42. Italy: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) –
by Type

Table 43. Italy: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) –
by Resolution

Table 44. Italy: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) –
by Rate Of Converter

Table 45. Italy: Data Converter Market – Revenue and Forecast to 2030(US\$ Million) –
by End-user

Table 46. Russia: Data Converter Market – Revenue and Forecast to 2030(US\$ Million)
– by Type

Table 47. Russia: Data Converter Market – Revenue and Forecast to 2030(US\$ Million)
– by Resolution

Table 48. Russia: Data Converter Market – Revenue and Forecast to 2030(US\$ Million)
– by Rate Of Converter

Table 49. Russia: Data Converter Market – Revenue and Forecast to 2030(US\$ Million)
– by End-user

Table 50. Rest of Europe: Data Converter Market – Revenue and Forecast to 2030(US\$
Million) – by Type

Table 51. Rest of Europe: Data Converter Market – Revenue and Forecast to 2030(US\$
Million) – by Resolution

Table 52. Rest of Europe: Data Converter Market – Revenue and Forecast to 2030(US\$
Million) – by Rate Of Converter

Table 53. Rest of Europe: Data Converter Market – Revenue and Forecast to 2030(US\$
Million) – by End-user

Table 54. Asia Pacific: Data Converter Market – Revenue and Forecast to 2030(US\$
Million) – by Type

Table 55. Asia Pacific: Data Converter Market – Revenue and Forecast to 2030(US\$
Million) – by Resolution

Table 56. Asia Pacific: Data Converter Market – Revenue and Forecast to 2030(US\$
Million) – by Rate Of Converter

Table 57. Asia Pacific: Data Converter Market – Revenue and Forecast to 2030(US\$
Million) – by End-user

Table 58. Asia Pacific: Data Converter Market – Revenue and Forecast to 2030(US\$
Million) – by Country

Table 59. China: Data Converter Market – Revenue and Forecast to 2030(US\$ Million)
– by Type

Table 60. China: Data Converter Market – Revenue and Forecast to 2030(US\$ Million)
– by Resolution

Table 61. China: Data Converter Market – Revenue and Forecast to 2030(US\$ Million)
– by Rate Of Converter

Table 62. China: Data Converter Market – Revenue and Forecast to 2030(US\$ Million)
– by End-user

Table 63. Japa

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