

High-speed Data Converter Market by Type (Analog-to-digital Converter, and Digital-to-analog Converter), Frequency Band (1 GSPS), Application (Communications, Test & Measurement) and Region - Global Forecast to 2028

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Abstracts

The high-speed data converter market was valued at USD 3.0 billion in 2022 and is projected to reach USD 4.3 billion by 2028; it is expected to grow at a CAGR of 6.4% from 2023 to 2028. Growing demand for high-resolution images in scientific and medical applications acts as a driver whereas potential use of high-speed data converters in developing advanced 5G infrastructure, and rapid adoption of IoT devices and data consumption provide lucrative opportunities to the high-speed data converter market.

“Analog-to-digital converter in automotive application segment is expected to grow at the highest growth rate during the forecast period”

Analog-to-digital converters in the automotive industry are expected to grow with the highest growth rate during the forecast period due to the increasing demand for advanced automotive features, such as autonomous driving, advanced driver-assistance systems (ADAS), and infotainment systems in modern cars. Modern cars require ADCs with high sampling rates to accurately capture the signals from sensors and other devices. These are equipped with a growing number of sensors, such as cameras, radar, lidar, and ultrasonic sensors generating analog signals that must be converted into digital signals that can be processed by the car's computer systems.

“Test & measurement application segment in Asia Pacific region is expected to hold the largest market share during the forecast period”

The test & measurement application holds the largest market share in the Asia Pacific region and is expected to retain its position during the forecast period. The Asia Pacific region, particularly China, is the global hub for electronics manufacturing. This leads to a high concentration of test & measurement activities across the region, ensuring a consistent demand for high-speed data converters used in testing and characterizing various electronic devices. Also, countries like China and India are increasingly adopting stricter quality control measures and adhering to international regulations. This necessitates the use of high-performance high-speed data converters in test & measurement equipment to guarantee the compliance and reliability of manufactured electronics.

“China in Asia Pacific is expected to hold the largest market share during the forecast period”

China accounted for the largest share of the high-speed data converter in Asia Pacific in 2022 and is expected to retain its position during the forecast. China is the world's largest electronics manufacturing hub, with a vast ecosystem of high-speed data converter suppliers and distributors. This proximity to manufacturers facilitates cost-effective production and distribution, giving China a significant edge. China's ambitious 'Made in China 2025' plan prioritizes technological advancements and domestic high-speed data converter production. This government support fuels research, development, and market expansion.

Following is the breakup of the profiles of the primary participants for the report.

By Company Type: Tier 1 – 45 %, Tier 2 – 35%, and Tier 3 – 20%

By Designation: C-Level Executives –32%, Directors- 40%, and Others – 28%

By Region: North America– 37%, Europe- 15%, Asia Pacific – 40%, and RoW – 8%

The report profiles key high-speed data converter players and analyzes their market shares. Players profiled in this report are Texas Instruments Incorporated (US); Analog Devices, Inc. (US); Infineon Technologies AG (Germany); Microchip Technology Inc. (US); STMicroelectronics (Switzerland); Teledyne Technologies Incorporated (US); ROHM CO., LTD. (Japan), etc.

Research Coverage

The report defines, describes, and forecasts the high-speed data converter based on Type, Frequency Band, Application, and Region. It provides detailed information regarding drivers, restraints, opportunities, and challenges influencing the growth of the high-speed data converter market. It also analyzes competitive developments such as product launches, acquisitions, expansions, contracts, partnerships, and actions conducted by the key players to grow in the market.

Reasons to Buy This Report

The report will help the market leaders/new entrants with information on the closest approximations of the revenue numbers for the overall high-speed data converter and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (Rising demand for test & measurement (T&M) solutions by end users, growing demand for high-resolution images in scientific and medical applications, and increasing adoption of technologically advanced data acquisition systems), restraints (Integration of RF data converters into FPGA and system-on-chip (SoC), and high development cost), opportunities (Potential use of high-speed data converters in developing advanced 5G infrastructure, and rapid adoption of IoT devices and data consumption), and challenges (Development of low-power consumption high-speed data converters) influencing the growth of the high-speed data converter market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the high-speed data converter

Market Development: Comprehensive information about lucrative markets – the report analyses the high-speed data converter across varied regions.

Market Diversification: Exhaustive information about new products & services,

untapped geographies, recent developments, and investments in the high-speed data converter

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Texas Instruments Incorporated (US); Analog Devices, Inc. (US); Infineon Technologies AG (Germany); Microchip Technology Inc. (US); STMicroelectronics (Switzerland); Teledyne Technologies Incorporated (US); ROHM CO., LTD. (Japan); Renesas Electronics Corporation (Japan); Synopsys, Inc. (US); ADSANTEC (US); IQ-ANALOG (US); Omni Design Technologies, Inc. (US); Corebai Microelectronics (Beijing) Co., Ltd. (China); Atom Semiconductor Technologies Limited (China); Data Device Corporation (US); Antelope Audio (US); Agile Analog Ltd. (UK); Rio Systems (Israel); Molex (US); TEWS Technologies GmbH (Germany); Numato Systems Private Limited (India); VadaTech (US); Vervesemi Microelectronics Pvt LTD (India); Alphacore Inc. (US), among others in the high-speed data converter strategies. The report also helps stakeholders understand the pulse of the high-speed data converter and provides them with information on key market drivers, restraints, challenges, and opportunities.

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.2.1 INCLUSIONS AND EXCLUSIONS

1.3 STUDY SCOPE

1.3.1 MARKETS COVERED

FIGURE 1 HIGH-SPEED DATA CONVERTER MARKET SEGMENTATION

1.3.2 REGIONAL SCOPE

1.3.3 YEARS CONSIDERED

1.4 CURRENCY CONSIDERED

1.5 UNITS CONSIDERED

1.6 STAKEHOLDERS

1.7 RECESSION IMPACT

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 HIGH-SPEED DATA CONVERTER MARKET: RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.1.1 Major secondary sources

2.1.1.2 Key data from secondary sources

2.1.2 PRIMARY DATA

2.1.2.1 Interviews with Experts with experts

2.1.2.2 Key data from primary sources

2.1.2.3 Key industry insights

2.1.2.4 Breakdown of primaries

2.1.3 SECONDARY AND PRIMARY RESEARCH

2.2 MARKET SIZE ESTIMATION

FIGURE 3 RESEARCH FLOW OF MARKET SIZE ESTIMATION

2.2.1 BOTTOM-UP APPROACH

FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

2.2.2 TOP-DOWN APPROACH

2.2.2.1 Approach used to capture market size from supply side

FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

2.3 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 6 DATA TRIANGULATION

2.4 RESEARCH ASSUMPTIONS

2.5 PARAMETERS CONSIDERED TO ANALYZE RECESSION IMPACT ON HIGH-SPEED DATA CONVERTER MARKET

2.6 RISK ASSESSMENT

2.7 RESEARCH LIMITATIONS

3 EXECUTIVE SUMMARY

TABLE 1 HIGH-SPEED DATA CONVERTER MARKET, 2019–2028 (MILLION UNITS)

FIGURE 7 ANALOG-TO-DIGITAL CONVERTERS TO RECORD HIGHER CAGR FROM 2023 TO 2028

FIGURE 8 >1 GSPS SEGMENT TO RECORD HIGHEST CAGR IN HIGH-SPEED DATA CONVERTER MARKET, BY FREQUENCY BAND, FROM 2023 TO 2028

FIGURE 9 AUTOMOTIVE SEGMENT TO RECORD HIGHEST CAGR IN HIGH-SPEED DATA CONVERTER MARKET DURING FORECAST PERIOD

FIGURE 10 ASIA PACIFIC CAPTURED LARGEST SHARE OF HIGH-SPEED DATA CONVERTER MARKET IN 2022

4 PREMIUM INSIGHTS

4.1 MAJOR OPPORTUNITIES FOR PLAYERS IN HIGH-SPEED DATA CONVERTER MARKET

FIGURE 11 RISING DEMAND FOR HIGH-SPEED DATA CONVERTERS IN COMMUNICATIONS APPLICATIONS TO DRIVE MARKET

4.2 HIGH-SPEED DATA CONVERTER MARKET, BY FREQUENCY BAND

FIGURE 12 1 GSPS TO GROW AT HIGHEST CAGR FROM 2023 TO 2028

TABLE 31 HIGH-SPEED DATA CONVERTER MARKET, BY FREQUENCY BAND, 2019–2022 (USD MILLION)

TABLE 32 HIGH-SPEED DATA CONVERTER MARKET, BY FREQUENCY BAND, 2023–2028 (USD MILLION)

7.2 1 GSPS: HIGH-SPEED DATA CONVERTER MARKET, BY TYPE, 2023–2028 (USD MILLION)

8 HIGH-SPEED DATA CONVERTER MARKET, BY APPLICATION

8.1 INTRODUCTION

FIGURE 39 HIGH-SPEED DATA CONVERTER MARKET, BY APPLICATION

FIGURE 40 COMMUNICATIONS APPLICATIONS TO LEAD MARKET THROUGHOUT FORECAST PERIOD

TABLE 39 HIGH-SPEED DATA CONVERTER MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 40 HIGH-SPEED DATA CONVERTER MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

8.2 COMMUNICATIONS

8.2.1 INCREASING INVESTMENTS IN 5G INFRASTRUCTURE DEVELOPMENT TO BOOST DEMAND

TABLE 41 COMMUNICATIONS: HIGH-SPEED DATA CONVERTER MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 42 COMMUNICATIONS: HIGH-SPEED DATA CONVERTER MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 43 COMMUNICATIONS: HIGH-SPEED DATA CONVERTER MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 44 COMMUNICATIONS: HIGH-SPEED DATA CONVERTER MARKET, BY REGION, 2023–2028 (USD MILLION)

8.3 TEST & MEASUREMENT

8.3.1 SURGING USE OF T&M INSTRUMENTS WITH HEIGHTENED FOCUS ON PRODUCT QUALITY IMPROVEMENT TO ELEVATE DEMAND

TABLE 45 TEST & MEASUREMENT: HIGH-SPEED DATA CONVERTER MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 46 TEST & MEASUREMENT: HIGH-SPEED DATA CONVERTER MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 47 TEST & MEASUREMENT: HIGH-SPEED DATA CONVERTER MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 48 TEST & MEASUREMENT: HIGH-SPEED DATA CONVERTER MARKET, BY REGION, 2023–2028 (USD MILLION)

8.4 AUTOMOTIVE

8.4.1 ACCELERATING TREND OF IN-CAR INFOTAINMENT SYSTEMS TO FUEL MARKET GROWTH

TABLE 49 AUTOMOTIVE: HIGH-SPEED DATA CONVERTER MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 50 AUTOMOTIVE: HIGH-SPEED DATA CONVERTER MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 51 AUTOMOTIVE: HIGH-SPEED DATA CONVERTER MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 52 AUTOMOTIVE: HIGH-SPEED DATA CONVERTER MARKET, BY REGION, 2023–2028 (USD MILLION)

8.5 MEDICAL

8.5.1 GROWING ADOPTION OF ADVANCED IMAGING AND MONITORING

DEVICES BY MEDICAL PROFESSIONALS TO SUPPORT MARKET GROWTH
TABLE 53 MEDICAL: HIGH-SPEED DATA CONVERTER MARKET, BY TYPE,
2019–2022 (USD MILLION)

TABLE 54 MEDICAL: HIGH-SPEED DATA CONVERTER MARKET, BY TYPE,
2023–2028 (USD MILLION)

TABLE 55 MEDICAL: HIGH-SPEED DATA CONVERTER MARKET, BY REGION,
2019–2022 (USD MILLION)

TABLE 56 MEDICAL: HIGH-SPEED DATA CONVERTER MARKET, BY REGION,
2023–2028 (USD MILLION)

8.6 AEROSPACE & DEFENSE

8.6.1 INCREASING DEMAND FOR RADAR AND SATELLITE COMMUNICATION
SYSTEMS TO STIMULATE MARKET GROWTH

TABLE 57 AEROSPACE & DEFENSE: HIGH-SPEED DATA CONVERTER MARKET,
BY TYPE, 2019–2022 (USD MILLION)

TABLE 58 AEROSPACE & DEFENSE: HIGH-SPEED DATA CONVERTER MARKET,
BY TYPE, 2023–2028 (USD MILLION)

TABLE 59 AEROSPACE & DEFENSE: HIGH-SPEED DATA CONVERTER MARKET,
BY REGION, 2019–2022 (USD MILLION)

TABLE 60 AEROSPACE & DEFENSE: HIGH-SPEED DATA CONVERTER MARKET,
BY REGION, 2023–2028 (USD MILLION)

8.7 INDUSTRIAL

8.7.1 ELEVATING ADOPTION OF M2M COMMUNICATION AND IOT
TECHNOLOGIES TO CONTRIBUTE TO MARKET GROWTH

TABLE 61 INDUSTRIAL: HIGH-SPEED DATA CONVERTER MARKET, BY TYPE,
2019–2022 (USD MILLION)

TABLE 62 INDUSTRIAL: HIGH-SPEED DATA CONVERTER MARKET, BY TYPE,
2023–2028 (USD MILLION)

TABLE 63 INDUSTRIAL: HIGH-SPEED DATA CONVERTER MARKET, BY REGION,
2019–2022 (USD MILLION)

TABLE 64 INDUSTRIAL: HIGH-SPEED DATA CONVERTER MARKET, BY REGION,
2023–2028 (USD MILLION)

9 HIGH-SPEED DATA CONVERTER MARKET, BY REGION

9.1 INTRODUCTION

FIGURE 41 HIGH-SPEED DATA CONVERTER MARKET, BY REGION

FIGURE 42 ASIA PACIFIC TO DOMINATE HIGH-SPEED DATA CONVERTER
MARKET DURING FORECAST PERIOD

TABLE 65 HIGH-SPEED DATA CONVERTER MARKET, BY REGION, 2019–2022

(USD MILLION)

TABLE 66 HIGH-SPEED DATA CONVERTER MARKET, BY REGION, 2023–2028

(USD MILLION)

9.2 NORTH AMERICA

FIGURE 43 NORTH AMERICA: HIGH-SPEED DATA CONVERTER MARKET, BY COUNTRY

FIGURE 44 NORTH AMERICA: HIGH-SPEED DATA CONVERTER MARKET SNAPSHOT

TABLE 67 NORTH AMERICA: HIGH-SPEED DATA CONVERTER MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 68 NORTH AMERICA: HIGH-SPEED DATA CONVERTER MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 69 NORTH AMERICA: HIGH-SPEED DATA CONVERTER MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 70 NORTH AMERICA: HIGH-SPEED DATA CONVERTER MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 71 NORTH AMERICA: HIGH-SPEED DATA CONVERTER MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 72 NORTH AMERICA: HIGH-SPEED DATA CONVERTER MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

9.2.1 IMPACT OF RECESSION ON HIGH-SPEED DATA CONVERTER MARKET IN NORTH AMERICA

FIGURE 45 ANALYSIS OF HIGH-SPEED DATA CONVERTER MARKET IN NORTH AMERICA: PRE- AND POST-RECESSION SCENARIOS

9.2.2 US

9.2.2.1 Requirement for data acquisition systems in various industries to increase demand for high-speed data converters

9.2.3 CANADA

9.2.3.1 Increasing demand for communication technologies and broadband services to drive market

9.2.4 MEXICO

9.2.4.1 Digital monitoring solutions to create demand for high-speed data converters

9.3 EUROPE

FIGURE 46 EUROPE: HIGH-SPEED DATA CONVERTER MARKET, BY COUNTRY

FIGURE 47 EUROPE: HIGH-SPEED DATA CONVERTER MARKET SNAPSHOT

TABLE 73 EUROPE: HIGH-SPEED DATA CONVERTER MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 74 EUROPE: HIGH-SPEED DATA CONVERTER MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 75 EUROPE: HIGH-SPEED DATA CONVERTER MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 76 EUROPE: HIGH-SPEED DATA CONVERTER MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 77 EUROPE: HIGH-SPEED DATA CONVERTER MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 78 EUROPE: HIGH-SPEED DATA CONVERTER MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

9.3.1 IMPACT OF RECESSION ON HIGH-SPEED DATA CONVERTER MARKET IN EUROPE

FIGURE 48 ANALYSIS OF HIGH-SPEED DATA CONVERTER MARKET IN EUROPE: PRE- AND POST-RECESSION SCENARIOS

9.3.2 GERMANY

9.3.2.1 Rising demand for in-building solutions to drive market

9.3.3 UK

9.3.3.1 Strong communication infrastructure to increase demand for high-speed data converters

9.3.4 FRANCE

9.3.4.1 Growing penetration of IoT in industrial sector to propel market

9.3.5 ITALY

9.3.5.1 Government initiatives to promote semiconductor manufacturing to support market growth

9.3.6 REST OF EUROPE

9.4 ASIA PACIFIC

FIGURE 49 ASIA PACIFIC: HIGH-SPEED DATA CONVERTER MARKET, BY COUNTRY

FIGURE 50 ASIA PACIFIC: HIGH-SPEED DATA CONVERTER MARKET SNAPSHOT

TABLE 79 ASIA PACIFIC: HIGH-SPEED DATA CONVERTER MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 80 ASIA PACIFIC: HIGH-SPEED DATA CONVERTER MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 81 ASIA PACIFIC: HIGH-SPEED DATA CONVERTER MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 82 ASIA PACIFIC: HIGH-SPEED DATA CONVERTER MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 83 ASIA PACIFIC: HIGH-SPEED DATA CONVERTER MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 84 ASIA PACIFIC: HIGH-SPEED DATA CONVERTER MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

9.4.1 IMPACT OF RECESSION ON HIGH-SPEED DATA CONVERTER MARKET IN ASIA PACIFIC

FIGURE 51 ANALYSIS OF HIGH-SPEED DATA CONVERTER MARKET IN ASIA PACIFIC: PRE- AND POST-RECESSION SCENARIOS

9.4.2 CHINA

9.4.2.1 Growing adoption of electronics and infotainment systems in automotive segment to drive market

9.4.3 JAPAN

9.4.3.1 Developed industrial infrastructure to boost demand for high-speed data converters

9.4.4 INDIA

9.4.4.1 Deployment of 5G communication infrastructure to propel market

9.4.5 REST OF ASIA PACIFIC

9.5 ROW

FIGURE 52 ROW: HIGH-SPEED DATA CONVERTER MARKET, BY GEOGRAPHY

TABLE 85 ROW: HIGH-SPEED DATA CONVERTER MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 86 ROW: HIGH-SPEED DATA CONVERTER MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 87 ROW: HIGH-SPEED DATA CONVERTER MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 88 ROW: HIGH-SPEED DATA CONVERTER MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 89 ROW: HIGH-SPEED DATA CONVERTER MARKET, BY GEOGRAPHY, 2019–2022 (USD MILLION)

TABLE 90 ROW: HIGH-SPEED DATA CONVERTER MARKET, BY GEOGRAPHY, 2023–2028 (USD MILLION)

9.5.1 IMPACT OF RECESSION ON HIGH-SPEED DATA CONVERTER MARKET IN ROW

FIGURE 53 ANALYSIS OF HIGH-SPEED DATA CONVERTER MARKET IN ROW: PRE- AND POST-RECESSION SCENARIOS

9.5.2 SOUTH AMERICA

9.5.2.1 Increasing demand for connected devices and medical equipment to drive market

9.5.3 GCC COUNTRIES

9.5.3.1 Growing investments in networking infrastructure to support market growth

9.5.4 REST OF MIDDLE EAST & AFRICA

9.5.4.1 Rising adoption of IIoT by oil and gas companies to fuel market growth

10 COMPETITIVE LANDSCAPE

10.1 OVERVIEW

10.1.1 INTRODUCTION

10.2 STRATEGIES ADOPTED BY KEY PLAYERS

TABLE 91 OVERVIEW OF STRATEGIES ADOPTED BY KEY PLAYERS IN HIGH-SPEED DATA CONVERTER MARKET

10.3 REVENUE ANALYSIS OF TOP 5 PLAYERS

FIGURE 54 THREE-YEAR REVENUE ANALYSIS OF TOP PLAYERS IN HIGH-SPEED DATA CONVERTER MARKET, 2020–2022

10.4 MARKET SHARE ANALYSIS

TABLE 92 HIGH-SPEED DATA CONVERTER MARKET: DEGREE OF COMPETITION

TABLE 93 HIGH-SPEED DATA CONVERTER MARKET: RANKING ANALYSIS

FIGURE 55 MARKET SHARE ANALYSIS OF KEY PLAYERS, 2022

10.5 COMPANY EVALUATION MATRIX

10.5.1 STARS

10.5.2 EMERGING LEADERS

10.5.3 PERVASIVE PLAYERS

10.5.4 PARTICIPANTS

FIGURE 56 HIGH-SPEED DATA CONVERTER MARKET: COMPANY EVALUATION MATRIX, 2022

10.5.5 COMPANY FOOTPRINT ANALYSIS

TABLE 94 COMPANY APPLICATION FOOTPRINT (17 COMPANIES)

TABLE 95 COMPANY REGION FOOTPRINT (17 COMPANIES)

TABLE 96 COMPANY OVERALL FOOTPRINT (17 COMPANIES)

10.6 START-UP/SME EVALUATION MATRIX

10.6.1 PROGRESSIVE COMPANIES

10.6.2 RESPONSIVE COMPANIES

10.6.3 DYNAMIC COMPANIES

10.6.4 STARTING BLOCKS

FIGURE 57 HIGH-SPEED DATA CONVERTER MARKET: START-UP/SME EVALUATION MATRIX, 2022

10.6.5 COMPETITIVE BENCHMARKING

TABLE 97 HIGH-SPEED DATA CONVERTER MARKET: LIST OF KEY START-UPS/SMES

10.6.6 START-UP/SME FOOTPRINT

TABLE 98 START-UP/SME APPLICATION FOOTPRINT (8 COMPANIES)

TABLE 99 START-UP/SME REGION FOOTPRINT (8 COMPANIES)

TABLE 100 START-UP/SME OVERALL FOOTPRINT

10.7 COMPETITIVE SCENARIOS AND TRENDS

10.7.1 PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 101 HIGH-SPEED DATA CONVERTER MARKET: PRODUCT LAUNCHES/DEVELOPMENTS, 2021–2022

10.7.2 DEALS

TABLE 102 DEALS, 2021–2023

11 COMPANY PROFILES

11.1 INTRODUCTION

11.2 KEY PLAYERS

(Business Overview, Products/Solutions/Services Offered, Recent Developments, MnM view (Key strengths/Right to win, Strategic choices made, Weakness/competitive threats)*

11.2.1 ANALOG DEVICES, INC.

TABLE 103 ANALOG DEVICES, INC.: COMPANY OVERVIEW

FIGURE 58 ANALOG DEVICES, INC.: COMPANY SNAPSHOT

TABLE 104 ANALOG DEVICES, INC.: PRODUCTS OFFERED

TABLE 105 ANALOG DEVICES, INC.: PRODUCT LAUNCHES

TABLE 106 ANALOG DEVICES, INC.: DEALS

11.2.2 TEXAS INSTRUMENTS INCORPORATED

TABLE 107 TEXAS INSTRUMENTS INCORPORATED: COMPANY OVERVIEW

FIGURE 59 TEXAS INSTRUMENTS INCORPORATED: COMPANY SNAPSHOT

TABLE 108 TEXAS INSTRUMENTS INCORPORATED: PRODUCTS OFFERED

TABLE 109 TEXAS INSTRUMENTS INCORPORATED: PRODUCT LAUNCHES

TABLE 110 TEXAS INSTRUMENTS INCORPORATED: DEALS

11.2.3 INFINEON TECHNOLOGIES AG

TABLE 111 INFINEON TECHNOLOGIES AG: COMPANY OVERVIEW

FIGURE 60 INFINEON TECHNOLOGIES AG: COMPANY SNAPSHOT

TABLE 112 INFINEON TECHNOLOGIES AG: PRODUCTS OFFERED

TABLE 113 INFINEON TECHNOLOGIES AG: DEALS

TABLE 114 INFINEON TECHNOLOGIES AG: OTHERS

11.2.4 MICROCHIP TECHNOLOGY INC.

TABLE 115 MICROCHIP TECHNOLOGY INC.: COMPANY OVERVIEW

FIGURE 61 MICROCHIP TECHNOLOGY INC.: COMPANY SNAPSHOT

TABLE 116 MICROCHIP TECHNOLOGY INC.: PRODUCTS OFFERED

TABLE 117 MICROCHIP TECHNOLOGY INC.: OTHERS

11.2.5 TELEDYNE TECHNOLOGIES INCORPORATED

FIGURE 62 TELEDYNE TECHNOLOGIES INCORPORATED: COMPANY SNAPSHOT

TABLE 119 TELEDYNE TECHNOLOGIES INCORPORATED: PRODUCTS OFFERED**11.2.6 STMICROELECTRONICS****TABLE 121 STMICROELECTRONICS: COMPANY OVERVIEW****FIGURE 63 STMICROELECTRONICS: COMPANY SNAPSHOT****TABLE 122 STMICROELECTRONICS: PRODUCTS OFFERED****TABLE 123 STMICROELECTRONICS: DEALS****11.2.7 RENESAS ELECTRONICS CORPORATION****TABLE 124 RENESAS ELECTRONICS CORPORATION: COMPANY OVERVIEW****FIGURE 64 RENESAS ELECTRONICS CORPORATION: COMPANY SNAPSHOT****TABLE 125 RENESAS ELECTRONICS CORPORATION: PRODUCTS OFFERED****TABLE 126 RENESAS ELECTRONICS CORPORATION: DEALS****11.2.8 ROHM CO., LTD.****TABLE 127 ROHM CO., LTD.: COMPANY OVERVIEW****FIGURE 65 ROHM CO., LTD.: COMPANY SNAPSHOT****TABLE 128 ROHM CO., LTD.: PRODUCTS OFFERED****TABLE 129 ROHM CO., LTD.: DEALS****11.2.9 SYNOPSYS, INC.****TABLE 130 SYNOPSYS, INC.: COMPANY OVERVIEW****FIGURE 66 SYNOPSYS, INC.: COMPANY SNAPSHOT****TABLE 131 SYNOPSYS, INC.: PRODUCTS OFFERED****TABLE 132 SYNOPSYS, INC.: DEALS****11.2.10 ADSANTEC****TABLE 133 ADSANTEC: COMPANY OVERVIEW****TABLE 134 ADSANTEC: PRODUCTS OFFERED****11.3 OTHER PLAYERS****11.3.1 IQ-ANALOG****11.3.2 OMNI DESIGN TECHNOLOGIES, INC.****11.3.3 COREBAI MICROELECTRONICS (BEIJING) CO., LTD.****11.3.4 ATOM SEMICONDUCTOR TECHNOLOGIES LIMITED****11.3.5 DATA DEVICE CORPORATION****11.3.6 ANTELOPE AUDIO****11.3.7 AGILE ANALOG LTD.****11.3.8 RIO SYSTEMS****11.3.9 MOLEX****11.3.10 TEWS TECHNOLOGIES GMBH****11.3.11 NUMATO SYSTEMS PRIVATE LIMITED****11.3.12 VADATECH****11.3.13 VERVESEMI MICROELECTRONICS PVT LTD****11.3.14 ALPHACORE INC.**

11.3.15 KOHERON

Details on Business Overview, Products/Solutions/Services Offered, Recent Developments, MnM view (Key strengths/Right to win, Strategic choices made, Weakness/competitive threats) might not be captured in case of unlisted companies.

12 APPENDIX

12.1 DISCUSSION GUIDE

12.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

12.3 CUSTOMIZATION OPTIONS

12.4 RELATED REPORTS

12.5 AUTHOR DETAILS

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