

Semiconductor Market By Component (Memory Devices, Logic Devices, Analog IC, MPU, MCU, Sensors, Discrete Power Devices, Others), By Node Size (180nm, 130nm, 90nm, 65nm, 45/40nm, 32/28nm, 22/20nm, 16/14nm, 10/7nm, 7/5nm, 5nm), By Application (Telecommunication, Defense and Military, Industrial, Consumer Electronics, Automotive, Others): Global Opportunity Analysis and Industry Forecast, 2021-2031

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Report description:

A semiconductor is a material that has electrical conductivity between that of a conductor such as copper and an insulator such as glass. Semiconductors are the foundation of modern electronics, including transistors, solar cells, light-emitting diodes, quantum dots and digital and analog integrated circuits. Conductivity of a semiconductor material increases with increasing temperature and behavior opposite to that of a metal. Semiconductors can display a range of useful properties such as passing current more easily in one direction than the other, variable resistance, and sensitivity to light or heat. Conductive properties of a semiconductor material can be modified by controlled addition of impurities or by application of electrical fields or light, devices made with semiconductors are very useful for amplification of signals, switching, and energy conversion.

The semiconductor market is segmented on the basis of component, node size, application, and region. By component, the market is divided into memory devices, logic devices, analog IC, MPU, MCU, sensors, discrete power devices, and others. By node size, it is divided into 180nm, 130nm, 90nm, 65nm, 45/40nm, 32/28nm, 22/20nm, 16/14nm, 10/7nm, and 7/5nm. By application, it is segmented into telecommunication, defense & military, industrial, consumer electronics, automotive, and others.

Region wise, the semiconductor market trends are analyzed across North America (the U.S., Canada, and Mexico), Europe (France, Germany, UK, and rest of Europe), Asia-Pacific (China, Japan, India, South Korea, and rest of Asia-Pacific) and LAMEA (Latin

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America, the Middle East, and Africa). North America, specifically the U.S., remains a significant participant in the global industrial semiconductor. Major organizations and government institutions in the country are intensely putting resources into the technology.

Key players operating in the market include semiconductor market players, such as Broadcom Inc, Intel Corporation, Qualcomm Incorporated, Samsung Electronics Co Ltd, SK Hynix Inc., Taiwan Semiconductors, Texas Instruments Inc., Toshiba Corporation, Maxim Integrated Products Inc., and Micron Technology Inc.

Key Benefits For Stakeholders

-This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the semiconductor market analysis from 2021 to 2031 to identify the prevailing semiconductor market opportunities.

-The market research is offered along with information related to key drivers, restraints, and opportunities.

-Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

-In-depth analysis of the semiconductor market segmentation assists to determine the prevailing market opportunities.

-Major countries in each region are mapped according to their revenue contribution to the global market.

-Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

-The report includes the analysis of the regional as well as global semiconductor market trends, key players, market segments, application areas, and market growth strategies.

Key Market Segments

By Component

- Memory Devices
- Logic Devices
- Analog IC
- MPU
- MCU
- Sensors
- Discrete Power Devices
- Others

By Node Size

- 65nm
- 45/40nm
- 32/28nm
- 22/20nm
- 16/14nm
- 10/7nm
- 7/5nm
- 180nm
- 130nm
- 90nm
- 5nm

By Application

- Telecommunication
- Defense and Military
- Industrial
- Consumer Electronics
- Automotive
- Others

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By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- France
- Germany
- UK
- Rest of Europe
- Asia-Pacific
- China
- Japan
- India
- South Korea
- Rest of Asia-Pacific
- LAMEA
- Latin America
- Middle East
- Africa
- Key Market Players
- Broadcom Inc.
- QUALCOMM Incorporated
- Samsung Electronics Co Ltd
- SK Hynix Inc.
- Taiwan Semiconductors
- Texas Instruments Inc.
- TOSHIBA Corporation
- Maxim Integrated Products Inc.
- Micron Technology Inc.
- NVIDIA Corporation
- NXP Semiconductors
- Analog Devices Inc.
- Advanced Micro Devices, Inc.
- Infineon Technologies
- MediaTek Inc
- STMicroelectronics
- Intel Corporation

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