

Global Semiconductor Market - Forecasts from 2019 to 2024

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Abstracts

The global semiconductor Market will witness a CAGR of 2.80% to reach US\$529.900 billion by 2024, from US\$448.895 billion in 2018, owing to the increasing adoption of electronics around the globe. The demand for semiconductor devices is also projected to surge with the growing automation and the rising replacement of mechanical components with electronic devices across industry verticals.

Growing global working population and rising disposable incomes, especially in developing countries, has resulted in a boost in the demand for electronics around the world. This, in turn, semiconductor components as they are the building blocks for electronics. Another driver of the global semiconductor market is the growing automation across industry verticals, which is leading to the replacement of legacy devices with newer technology and is thus further propelling the market growth in the coming years.

By Type, the memory segment is projected to hold the substantial share in the market due to the increase in the memory prices in 2018. However, the relative oversupply of memory has resulted in a steep decrease in prices and the market is projected to witness a slow growth in the coming years. The optoelectronics segment will grow at a significant pace owing to their increasing adoption in industries such as communication and automotive.

By End-User Industry, the global semiconductor market is segmented into communication, consumer electronics, automotive and manufacturing. The automotive segment is projected to witness the fastest growth, at a CAGR of 6.58% during the forecast period due to the increasing usage of electronics for automotive automation. The communications segment will hold the largest share, however the increase in

automotive and manufacturing segment is projected to have a marginal impact on the share during the projected period.

By Geography, Asia-Pacific region is expected to witness the fastest regional market growth during the forecast period, and the region will also hold the largest share geographically. This share is attributable to the expanding electronics manufacturing in the region due to the availability of cheaper labour and favourable government initiatives. The European region is also projected to witness a substantial share in the market owing to its high share in the industrial electronics production.

Major industry players profiled as a part of this report are Texas Instruments, Analog Devices, Inc., Maxim Integrated, Intel Corporation, and NXP Semiconductor, among others.

Segmentation

The global semiconductor market has been analyzed through the following segments:

- By Device Type

- o Memory

- § Type

- DRAM

- NAND

- Others

- § End-User Industries

- Communications

- Consumer Electronics

- Automotive

- Manufacturing

- § Geography

- North America

- Europe

- Asia Pacific

- Rest of the World

- o Logic

- § Type

- Special Purpose Logic
- Display Drivers
- General Purpose Logic
- Application Specific Integrated Circuits (ASICs)
- Programmable Logic Devices

§ End-User Industries

- Communications
- Consumer Electronics
- Automotive
- Manufacturing

§ Geography

- North America
- Europe
- Asia Pacific
- Rest of the World

o Analog

§ Type

- General Purpose
- Application Specific

§ End-User Industries

- Communications
- Consumer Electronics
- Automotive
- Manufacturing

§ Geography

- North America
- Europe
- Asia Pacific
- Rest of the World

o Microcomponents

§ Type

- MPU
- MCU
- DSP

§ End-User Industries

- Communications
- Consumer Electronics

- Automotive
- Manufacturing

§ Geography

- North America
- Europe
- Asia Pacific
- Rest of the World

o Optoelectronics

§ Type

- Lamps
- CMOS Image Sensors
- CCD Image Sensors
- Laser Storage Pick-Ups
- Displays
- Couplers
- Others

§ End-User Industries

- Communications
- Consumer Electronics
- Automotive
- Manufacturing

§ Geography

- North America
- Europe
- Asia Pacific
- Rest of the World

o Discrete

§ Type

- Thyristors
- Rectifiers
- Power Transistors
- Small Signal Transistors
- Diodes
- Others

§ End-User Industries

- Communications
- Consumer Electronics

- Automotive
- Manufacturing
- § Geography
 - North America
 - Europe
 - Asia Pacific
 - Rest of the World
- o Sensors and Actuators
 - § Type
 - Sensors
 - o Pressure
 - o Fingerprint
 - o Magnetometer
 - o Inertial
 - o Others
 - Actuators
 - § End-User Industries
 - Communications
 - Consumer Electronics
 - Automotive
 - Manufacturing
 - § Geography
 - North America
 - Europe
 - Asia Pacific
 - Rest of the World
- By End-User Industry
 - o Communications
 - § Type
 - o Consumer Electronics
 - § Type
 - o Automotive
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 - By Geography

- o North America
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