

Global Transistor Market Size study & Forecast, by Type (Bipolar Junction Transistor, Field Effect Transistor), by End-user Industry (Consumer Electronics, Communication and Technology, Automotive, Manufacturing, Energy and Power) and Regional Analysis, 2022-2029

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Abstracts

The global Transistor Market is valued at approximately USD XX billion in 2021 and is anticipated to grow with a healthy growth rate of more than XX % over the forecast period 2022-2029. A transistor is a semiconductor device that regulates current or voltage flow and serves as an electronic signal switch or gate. A transistor can amplify power or signals so that the output exceeds the input. It can be packaged separately or embedded in integrated circuits. The Transistor market is expanding because of factors such as the rising demand for electric vehicles and the growing demand for power-efficient electronic devices

According to the International Renewable Energy Agency 2020, there were around 1 million Electric cars on the road in 2020 and approximately 1000 new EV charging stations from 2017 to 2020 which supports electric car adoption. Whereas the rising adoption of electronic devices across the industrial sector and the proliferation of consumer electronics create lucrative opportunities for the market. However, scaling down the size of transistors and simultaneously maintaining high performance hampers the market growth throughout the forecast period of 2022-2029.

The key regions considered for the Global Transistor Market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. Asia Pacific dominated the market in terms of revenue, owing to the increasing demand for electric

vehicles, smart devices, wearables and electronic devices. Whereas the Asia Pacific is expected to grow with the highest CAGR during the forecast period, owing to factors such as increasing penetration of market players, growing R&D activities in the forecast period

Major market players included in this report are:

Semiconductor Components Industries, LLC

Infineon Technologies AG

STMicroelectronics

Diodes Incorporated

NXP Semiconductors

Renesas Electronics Corporation

Linear Systems

Texas Instruments Incorporated

Vishay Intertechnology Inc.

ROHM CO

Recent Developments in the Market:

In January 2022, Harvard University researchers designed and simulated the first topological acoustic transistors that use sound waves instead of electrons, as well as a connection architecture to form a universal logic gate that can switch the flow of sound on and off.

In December 2021, due to increased demand for analog LSIs and transistors, the ROHM group announced the establishment of a new production facility at its Malaysian manufacturing subsidiary, RWEM. The construction of the new building will increase the overall production capacity of RWEM by approximately 1.5 times.

Global Transistor Market Report Scope:

Historical Data 2019-2020-2021

Base Year for Estimation 2021

Forecast period 2022-2029

Report Coverage Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered Type, End-user, Region

Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World

Customization Scope Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:

Bipolar Junction Transistor

Field Effect Transistor

By End-user Industry:

Consumer Electronics

Communication and Technology

Automotive

Manufacturing

Energy and Power

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC
Latin America
Brazil
Mexico
RoLA
Rest of the World

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