

Global Logic IC Market Size study & Forecast, by Type (TTL (Transistor Logic), CMOS (Complementary Metal Oxide Semiconductor), Mixed Signal IC), by Product Type (ASIC, ASSP, PLD), by Application (Consumer Electronics, Automotive, IT & Telecommunications, Manufacturing & Automation, Other End-User Industry) and Regional Analysis, 2022-2029

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Abstracts

The global Logic IC 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 logic-integrated circuit can perform logic operations on one or more binary inputs to produce a binary output. A logic integrated circuit (IC) is a single small integrated package that contains a logic circuit's basic components and general functions. The Logic IC market is expanding because of factors such as the rising adoption of electric vehicles and the rise in telecommunication infrastructure

According to Statista, the sales of battery electric vehicle and plug-in hybrid electric vehicle in the United Kingdom is increasing at a good pace. In Q1 of 2018, 14484 units were sold, which increased to 23480 units in Q4 of 2019 and reached 33957 in Q1 of 2020. On the flip side, according to the International Energy Agency in 2020, the sales of electric cars in Germany, Italy, and France have increased rapidly owing to strengthening e-mobility policies, fiscal incentives, and stringent CO2 emission standards. In Europe, electric car sales were 55% higher from 2019 to 2020. Whereas the rising focus on the integration of devices and capital spending by fabs to enhance production capacities create lucrative opportunities for the market. However, the complexity associated with the design of Logic IC hampers market growth throughout the forecast period of 2022-2029.

The key regions considered for the Global Logic IC 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 and stringent government regulations. Whereas the Asia Pacific is expected to grow with the highest CAGR during the forecast period, owing to factors such as the increasing penetration of market players and technological advancement in the forecast period.

Major market players included in this report are:

STMicroelectronics

Renesas Electronics

ADI

Broadcom Inc.

Qualcomm Inc.

NXP Semiconductors N.V.

Marvell Semiconductor, Inc.

Mediatek, Inc.

Intel Corporation

Toshiba Corporation

Recent Developments in the Market:

In September 2021, Gallium nitride-based complementary logic integrated circuits are realised by researchers. Most integrated circuits (ICs) and electronic components use silicon metal-oxide-semiconductor (CMOS) technology. Because silicon (Si) has a narrow bandgap, engineers have attempted to develop integrated circuits (ICs) in recent years using materials with a wider bandgap, such as gallium nitride (GaN).

In August 2021, Researchers at HKUST worked on expanding the capabilities of wide-bandgap semiconductor gallium nitride electronics. The Hong Kong University of Science and Technology (HKUST) recently welcomed a new member, complementary logic circuitry, into the family of wide-bandgap gallium nitride (GaN) electronics, significantly broadening the scope of GaN research. Complementary logic integrated circuits (ICs) are the foundation and dominant architecture in the silicon microelectronics industry, which currently accounts for over 90% of the semiconductor market.

Global Logic IC 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, Product, Application, 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:

TTL (Transistor Logic)

CMOS (Complementary Metal Oxide Semiconductor)

Mixed-Signal IC

By Product Type:

ASIC

ASSP

PLD

By Application:

Consumer Electronics

Automotive

IT & Telecommunications

Manufacturing and Automation

Other End-user Industries

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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