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Digital IC Market Research Report - Forecast till 2027

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Description:

Digital IC Market Overview

The Digital IC Market is projected to grow at a CAGR of 7.64%. According to MRFR analysis, the Digital IC Market value will expand up to USD 387 Billion during the forecast period 2020-2027. The measuring of voltages is one of the main Digital IC characteristics.

The circuits use the NOR, OR, and AND functions for improving the efficiency of digital systems. They are comprised of various multiplexers, electronic components, logic gates, etc. The miniaturization of digital circuits enhances speed and consumes low power. It also lessens the manufacturing costs.

There are several drivers such as the growing demand for various types of digital IC for various purposes are boosting the Digital Integrated Circuit Market growth. Also, the use of the Internet of Things (IoT) has a huge role in enhancing digital circuits. Simultaneously, the growing use of smartphones and tablets is also fuelling the market of Integrated Circuits.

However, some factors such as the complex integration process for digital circuits will slow down the growth to some extent. Also, the emergence of COVID-19 hindered market growth in 2021. Despite such hindrances, the Digital IC Market will regain its growth because of its various positive factors. Hence, the investors and market players will be largely benefitted from the increasing growth.

COVID-19 Analysis

The spread of COVID-19 diseases led to a severe financial crisis among several industries across the world. It caused the shutdown of several businesses, and also affected the supply chain extensively. Due to this reason the shortage of several components for the production of Digital Integrated Circuits. Major countries announced lockdowns and social distancing as a safety measure to prevent the spread. However, with the innovation of vaccines and other healthcare facilities, the economies will restore their growth.

Market Dynamics

Market Drivers

The increasing automation in cars has caused a huge demand for Digital ICs. Also, its uses in the healthcare industry several supportive equipments will further boost the Digital IC Market growth. The use of the Internet of Things (IoT) to integrate various systems and sensors will further enhance digital integrated circuit (IC) market growth.

Market Restraints

The major restraint that will affect the Digital IC Market growth is the complexities of combining the digital ICs into a single IC. This will create huge complications for the vendors to solve any technical issue.

Market Opportunities

The growing demand for the solution of low-power for the IoTs will open new opportunities for the Digital IC Market. Also, the growing rate of the use of electronic gadgets such as smartphones, tablets, etc. will increase the demand for Loic ICs, NAND, Flash Memory IC, etc. Along with that, the rising trend of BYOD will further enhance the market.

Market Challenges

The low- availability of skilled professionals can be challenging for the manufacturers to enhance the ICs. The designing of various functions into a single IC is a complicated task. Thus, with the lack of such skilled professionals, the market growth can slow down.

Cumulative Analysis

The projected Compound Annual Growth Rate (CAGR) of the Global Digital Integrated Circuit (IC) Market is 7.64%. According to MRFR analysis, the market value will reach USD 387 Billion during the forecast period 2021-2028. The rising market demand due to its several positive aspects will experience huge growth.

Value Chain Analysis

The growing use of smartphones and tablets will further enhance the Digital IC Market value in the forthcoming years. Also, the integration of 5G technology is one of the main factors that will lead to immense growth. Growing demand for the consumption of low-power equipment in healthcare, medical, electronics, etc., will simultaneously increase the value chain.

Market Segmentations

The market segment of the Digital Integrated Circuit is divided into raw material, end-user, and components. On the basis of raw material, the market of Digital Integrated Circuit is divided into Arsenide, Gallium, Silicon, others.

On the basis of components, the Digital IC Market is segmented into Microcontroller, Memory (Flash, EPROM, DRAM, and others), Digital Signal Processing, others

On the basis of end-users, the Digital IC Market is further bifurcated into Communication, Industrial, Automotive, Consumer Electronics, and others.

Regional Analysis

Geographically, the Digital IC Market is divided into North America, Asia-Pacific, Europe, South America, and the Middle East and Africa. Previously, in 2017, the Asia-Pacific region held the largest market share. As per reports, Asia-Pacific will further dominate the market in the future years. Countries like China, India, and Japan are providing the best opportunities for development and innovation. Also, the strict rules for driver's safety and the presence of key players are driving the market exponentially.

After that, North America will hold the second-largest share in the Digital IC Market. The rising demand for digital integrated circuits mainly in the automotive and consumer electronics industry is the major reason for growth.

Competitive Landscape

There are several companies that are focusing to develop and enhance the Digital Integrated Circuit Market. They do collaborations, mergers, product launches, and upgrades to increase their market value. In this way, they enhance their products or services and expand their business foothold. Here are the important key players in the Digital Integrated Circuit Market-

- Lattice Semiconductor Corporation (US)
- Broadcom Ltd. (Singapore)
- Samsung Corporation (South Korea)
- Integrated Device Technology Inc. (US)
- Texas Instruments Inc. (US)
- Skyworks Solutions Inc. (US)
- Semiconductor NV (Netherlands)
- Micron Technology Inc. (US)
- Toshiba Corporation (Japan)
- MediaTek Inc. (Taiwan)
- Maxim Integrated Products Inc. (US)
- Qualcomm Incorporated (US)
- Nvidia Corporation (US)
- Infineon Technologies AG (Germany)
- Analog Devices Inc. (US)
- SK Hynix Inc. (South Korea)
- STMicroelectronics (Switzerland)
- Intel Corporation (US)

Recent Developments

- PragmatIC in 2019 launched its new product called PR1102 and ConnectIC PR1101. These products are "flexible integrated circuits" (FlexICs), are best for the smart packaging market.
- Toshiba Corporation in 2019 launched a new product of three-phase motor controller ICs. This will mitigate the phase adjustment to get high efficiency with motor rotation speed.
- Texas Instruments in 2019, announced the launch of C200 microcontrollers with improved communication capabilities. It will help the designers with the use of a single chip to enhance connectivity.

Report Overview

The overview of the Digital Integrated Circuit Market Report is as follows-

- Market Overview
- COVID-19 Analysis
- Dynamics of the Market
- Value Chain Analysis
- Market Segmentation
- Regional Analysis
- Competitive Analysis
- Recent Development

Report Score and Segmentation

- Study Period- 2018-2023
- Base Year-2021
- Forecast Period- 2018-2023
- Historical Period-2019-2020

The report score is to give insight into the Global Digital Integrated Circuit (IC) Market. It covers important information that affects the market growth such as opportunities, drivers, restraints, challenges, etc. The information in this report is collected from various secondary and primary sources.

Market Segmentation Overview

By Raw Material Outlook

- Arsenide
- Gallium
- Silicon
- Others

By Component Outlook

- Microcontroller
- Memory (Flash, EPROM, DRAM, and others)
- Digital Signal Processing
- Others

By End-User Outlook

- Communication
- Industrial
- Automotive
- Consumer Electronics
- Others

By Region

- Europe (UK, France, Germany, Italy and Rest)
- North America (Canada, US, and Mexico)
- Asia-Pacific (Japan, China, India, Rest)
- South America (Brazil, Mexico, and Rest)

- The Middle East and Africa (South Africa, GCC, and others)

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