Global Isolation Amplifier Market, By Application (Medical (ECG and EEG), Industrial (Industrial Process Control, Current Shunt Measurement and Others (Nuclear and Telecommunication)), By Type (Analog and Digital), By Region – Forecast to 2023

Isolation amplifiers are components with dual functions of amplification and safety. It acts as a barrier against electrical shock and amplifies low voltage signals. These components are usually paired with transformers or small high voltage capacitors to isolate high currents. The global isolation amplifier market is touted to experience growth at a CAGR close to 10.4% during the assessment period (2018-2023), as per an insightful market report by Market Research Future (MRFR). The capacity of these amplifiers to prevent current leakage and reduce noise can fuel market demand in the coming years.

The increasing demand for noise cancellation and data protection in the telecommunication sector can fuel the market growth. Concerns regarding safety has found application for isolation amplifiers in medical institutions and hospitals. Emergence of precision isolation amplifiers coupled with its application in power monitoring, data acquisition, test equipment, and industrial process control can open up growth opportunities for the market. But high prices of three-port amplifiers can pose a challenge to the market.

Report Overview

The report covers the latest trends affecting the market to provide the most accurate forecasts and predictions. By correlating the historical data with key market dynamics, our analysts can make highly astute projections. MRFR’s report includes a thorough analysis of the global isolation amplifier market segmented by type, application, and region. Trends and opportunities are highlighted coupled with the market share of companies as well as their valuation in the market. It analyzes new revenue sources for players and outlines the various strategies implemented by players.

Segment Overview

By type, the market is segmented into analog and digital. The digital isolation amplifier segment can be expected to be the biggest revenue generator owing to change in communication networking technologies and transition of customers to faster data speed providing bandwidths. Furthermore, the development of smart cities is expected to galvanize segment demand over the forecast period.

In terms of applications, the isolation amplifier market finds use in medical, industrial, nuclear, telecommunication, and others. The medical segment is expected to contribute maximum value to the market owing to demand for amplifiers in maintaining the stability of equipment. This is evident by the availability of cost-effective magnetic resonance imaging (MRI) amplifiers which maintain current flow and provide accurate readings.

The segments and sub-segments covered in the report are analyzed with respect to four major regions – North America, Europe, Asia Pacific (APAC), and the Rest-of-the-World (RoW), with respective country-level market sizing. The definition and advantages of the product “isolation amplifier” is outlined in the report for a comprehensive understanding of the market. The report discusses the various players involved in the value chain and their contributions to evaluate future opportunities within the market.
Competitive Landscape

Noteworthy players in the isolation amplifier market include Broadcom Pte. Ltd. (U.S.), DRAGO Automation GmbH (Germany), Analog Devices, Inc. (U.S.), Würth Elektronik GmbH & Co. KG (Germany), Eaton Corporation PLC (Ireland), Texas Instruments Inc. (U.S.), Silicon Laboratories, Inc. (U.S.), Toshiba Corporation (Japan), and Dewetron GmbH (Austria). Companies are expanding into developing regions and establishing manufacturing units to further their footprint.

The report offers comprehensive profiles on these market players and assesses their current standing in the market. Company history coupled with annual turnover, profit margins, segmental share, SWOT analysis, growth strategies, new product launches, mergers and acquisitions (M&A) activities, and latest R&D initiatives are discussed in granular detail.

Research Methodology

At MRFR, our research analysts conduct a thorough objective analysis of the market when creating market reports by adhering to a rigorous set of standards which allow a truly comprehensive view of the market. Use of primary research strategies such as interviews with top-level decision makers of various leading companies in the relevant market combined with secondary research provides a thorough analysis of past and present trends in a forward-looking manner. Additionally, market size estimation and validation use both top-down & bottom-up approaches to obtain data from the demand and supply-side. Credible resources are employed to assist analysts to understand the nuances of market factors with consistency. Competent data analysts use strong analytical tools to ascertain accurate analysis of very relevant parameters in an effort to provide clients with a conclusive and dependable view of the future.

Analysis Period

- Base Year - 2017
- Projection Period - From 2018 to 2023
- Market Denomination - USD Million
- Conversion Rate - Considered as per the respective financial years

For the scope of research, the report offers a comprehensive analysis of the global isolation amplifier market.

Type
- Analog
- Digital

Application
- Medical
  - Electroencephalogram (EEG)
  - Electrocardiography (ECG)
  - Others
- Industrial
  - Current Shunt Measurement
  - Industrial Process Control
  - Others
- Telecommunication
- Nuclear
- Others

Region
- Americas
  - North America
    - The U.S.
    - Canada
    - Mexico
- Europe
  - France
- Germany
- Italy
- The U.K.
- Rest of Europe

- Asia Pacific
  - China
  - Japan
  - India
  - South Korea
  - Rest of Asia Pacific

- Rest-of-the-World

**Intended Audience**

- Technology Investors
- Research/Consultancy Firms
- Original Equipment Manufacturers (OEMs)
- OEM Technology Solution Providers
- Amplifiers Manufacturers
- Amplifiers Suppliers
- Manufacturing Companies
Infographic Summary:

Contents:

1  EXECUTIVE SUMMARY

2  MARKET INTRODUCTION

2.1 Definition 14
2.2 Scope of the Study 14
2.3 List of Assumptions 14
2.4 Market Structure 15
<table>
<thead>
<tr>
<th>3</th>
<th>MARKET INSIGHTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>RESEARCH METHODOLOGY</td>
</tr>
<tr>
<td>5</td>
<td>MARKET DYNAMICS</td>
</tr>
<tr>
<td>6</td>
<td>MARKET FACTOR ANALYSIS</td>
</tr>
<tr>
<td>7</td>
<td>GLOBAL ISOLATION AMPLIFIER MARKET, BY APPLICATION</td>
</tr>
<tr>
<td>8</td>
<td>GLOBAL ISOLATION AMPLIFIER MARKET, BY TYPE</td>
</tr>
<tr>
<td>9</td>
<td>ISOLATION AMPLIFIER MARKET, BY REGION</td>
</tr>
<tr>
<td>10</td>
<td>COMPETITIVE LANDSCAPE</td>
</tr>
<tr>
<td>11</td>
<td>COMPANY PROFILES</td>
</tr>
<tr>
<td>12</td>
<td>LIST OF TABLES</td>
</tr>
<tr>
<td>13</td>
<td>LIST OF FIGURES</td>
</tr>
</tbody>
</table>