

Neurostimulation Devices Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

<https://marketpublishers.com/r/N060D1E51094EN.html>

Date: October 2025

Pages: 130

Price: US\$ 4,850.00 (Single User License)

ID: N060D1E51094EN

Abstracts

The Global Neurostimulation Devices Market was valued at USD 8.1 billion in 2024 and is estimated to grow at a CAGR of 12.1% to reach USD 25.2 billion by 2034.

This market is advancing rapidly, fueled by the rising need for minimally invasive procedures, especially in developed regions, and the increasing prevalence of neurological disorders. A surge in elderly patients suffering from Parkinson's disease, epilepsy, chronic pain, and other neurological conditions is significantly driving demand for neurostimulation devices. These technologies provide targeted and patient-friendly alternatives to traditional treatments, aligning with the growing demand for scalable and effective therapies. Advancements in neurostimulation technology have also enhanced the safety, efficacy, and precision of both implantable and non-invasive devices, making them highly desirable for both healthcare providers and patients. The market is further supported by increased R&D efforts and the integration of digital platforms, enabling real-time data tracking and therapy customization. As healthcare systems continue prioritizing personalized and long-term management of chronic neurological conditions, neurostimulation devices are becoming a vital part of modern clinical practice and a key growth driver in the medical device landscape.

Neurostimulation devices are specialized systems designed to send electrical signals to specific nerves or regions of the nervous system. These signals help control symptoms and improve patient outcomes across a range of conditions, including depression, movement disorders, and treatment-resistant chronic pain. They are either externally worn or surgically implanted, depending on the condition being treated.

The spinal cord stimulators segment generated USD 3.4 billion in 2024. These

implantable devices block pain signals by delivering mild electrical pulses to the spinal cord, proving highly effective in patients with chronic pain who do not respond to standard treatments. Deep brain stimulation also plays a crucial role by regulating abnormal neural activity using strategically placed brain electrodes.

The invasive segment held an 81.8% share in 2024. Invasive devices such as vagus nerve stimulators, spinal cord stimulators, and deep brain stimulators continue to gain traction due to their high efficacy in treating chronic neurological conditions. These devices are often regarded as the most reliable therapeutic option based on clinical success and long-standing safety data. Their growing adoption reflects a preference among clinicians for proven, evidence-based technologies in managing refractory neurological diseases.

North America Neurostimulation Devices Market held a 41.2% share in 2024. Rising neurological disease prevalence, coupled with an aging population, underpins the region's strong market position. With increased access to advanced healthcare, robust investment in medical technology, and early adoption of innovative therapies, North America is positioned as a global hub for neurostimulation device development and adoption.

Key companies driving the Global Neurostimulation Devices Market include Abbott Laboratories, Medtronic, Innovative Health Solutions, Laborie, Aleva Neurotherapeutics, Synapse Biomedical, LivaNova, BioControl Medical, Endostim, ElectroCore, MicroTransponder, Neuronetics, RS Medical, tVNS Technologies (Cerbomed), Helbling Holding, Boston Scientific, and Parasym. Companies operating in the Neurostimulation Devices Market are implementing a range of strategies to strengthen their market position. Most are heavily investing in R&D to develop devices with enhanced precision, smaller form factors, and improved battery life. Strategic mergers, acquisitions, and partnerships with healthcare providers and research institutions are expanding their global reach and accelerating product innovation. Firms are focusing on launching patient-centric devices with integrated digital platforms that allow remote monitoring and real-time adjustments.

Contents

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Market scope and definitions
- 1.2 Research design
 - 1.2.1 Research approach
 - 1.2.2 Data collection methods
- 1.3 Data mining sources
 - 1.3.1 Global
 - 1.3.2 Regional/Country
- 1.4 Base estimates and calculations
 - 1.4.1 Base year calculation
 - 1.4.2 Key trends for market estimation
- 1.5 Primary research and validation
 - 1.5.1 Primary sources
- 1.6 Forecast model
- 1.7 Research assumptions and limitations

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry 360° synopsis
- 2.2 Key market trends
 - 2.2.1 Regional
 - 2.2.2 Product
 - 2.2.3 Type
 - 2.2.4 Application
 - 2.2.5 End Use
- 2.3 CXO perspectives: Strategic imperatives
 - 2.3.1 Key decision points for industry executives
 - 2.3.2 Critical success factors for market players
- 2.4 Future outlook and strategic recommendations

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
- 3.2 Industry impact forces
 - 3.2.1 Growth drivers
 - 3.2.1.1 Increasing demand for minimally invasive surgery in developed countries

- 3.2.1.2 Increasing prevalence of neurological disorders
- 3.2.1.3 Technological advancements in neurostimulation devices
- 3.2.1.4 Increasing number of elderly patients with neurological disorders
- 3.2.1.5 Investments by companies and organizations across the globe
- 3.2.2 Industry pitfalls and challenges
 - 3.2.2.1 Complications associated with neurostimulation devices
 - 3.2.2.2 Lack of skilled healthcare practitioners
- 3.2.3 Market opportunities
 - 3.2.3.1 Integration with digital health and AI
- 3.3 Growth potential analysis
- 3.4 Regulatory landscape
 - 3.4.1 North America
 - 3.4.2 Europe
 - 3.4.3 Asia Pacific
 - 3.4.4 Latin America
 - 3.4.5 Middle East and Africa
- 3.5 Technology landscape
- 3.6 Future market trends
- 3.7 Gap analysis
- 3.8 Pricing analysis
- 3.9 Reimbursement scenario
- 3.10 Porter's analysis
- 3.11 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

- 4.1 Introduction
- 4.2 Company market share analysis
- 4.3 Company matrix analysis
- 4.4 Competitive analysis of major market players
- 4.5 Competitive positioning matrix
- 4.6 Strategy dashboard
- 4.7 Key developments
 - 4.7.1 Mergers and acquisitions
 - 4.7.2 Partnerships and collaborations
 - 4.7.3 New product launches
 - 4.7.4 Expansion plans

CHAPTER 5 MARKET ESTIMATES AND FORECAST, BY PRODUCT, 2021 - 2034 (\$

MN)

- 5.1 Key trends
- 5.2 Spinal cord stimulator
- 5.3 Deep brain stimulator
- 5.4 Sacral nerve stimulator
- 5.5 Vagus nerve stimulator
- 5.6 Gastric electric stimulator
- 5.7 Transcutaneous electrical nerve stimulation (tens)
- 5.8 Other products

CHAPTER 6 MARKET ESTIMATES AND FORECAST, BY TYPE, 2021 - 2034 (\$ MN)

- 6.1 Key trends
- 6.2 Invasive
- 6.3 Non-invasive

CHAPTER 7 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2021 - 2034 (\$ MN)

- 7.1 Key trends
- 7.2 Pain management
- 7.3 Urinary and fecal incontinence
- 7.4 Parkinson's disease
- 7.5 Epilepsy
- 7.6 Essential tremor
- 7.7 Gastroparesis
- 7.8 Depression
- 7.9 Dystonia
- 7.10 Other applications

CHAPTER 8 MARKET ESTIMATES AND FORECAST, BY END USE, 2021 - 2034 (\$ MN)

- 8.1 Key trends
- 8.2 Hospitals
- 8.3 Ambulatory surgery centers
- 8.4 Specialty clinics
- 8.5 Other end users

CHAPTER 9 MARKET ESTIMATES AND FORECAST, BY REGION, 2021 - 2034 (\$ MN)

9.1 Key trends

9.2 North America

1.1.1 U.S.

1.1.2 Canada

9.3 Europe

1.1.3 Germany

1.1.4 UK

1.1.5 France

1.1.6 Spain

1.1.7 Italy

1.1.8 Netherlands

9.4 Asia Pacific

1.1.9 China

1.1.10 Japan

1.1.11 India

1.1.12 Australia

1.1.13 South Korea

9.5 Latin America

1.1.14 Brazil

1.1.15 Mexico

1.1.16 Argentina

9.6 Middle East and Africa

1.1.17 South Africa

1.1.18 Saudi Arabia

1.1.19 UAE

CHAPTER 10 COMPANY PROFILES

10.1 Abbott Laboratories

10.2 Aleva Neurotherapeutics

10.3 BioControl Medical

10.4 Boston Scientific

10.5 ElectroCore

10.6 Endostim

10.7 Helbling Holding

- 10.8 Innovative Health Solutions
- 10.9 Laborie
- 10.10 LivaNova
- 10.11 Medtronic
- 10.12 MicroTransponder
- 10.13 Neuronetics
- 10.14 Parasym
- 10.15 RS Medical
- 10.16 Synapse Biomedical
- 10.17 tVNS Technologies (Cerbomed)

I would like to order

Product name: Neurostimulation Devices Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

Product link: <https://marketpublishers.com/r/N060D1E51094EN.html>

Price: US\$ 4,850.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/N060D1E51094EN.html>