

Brain Computer Interface Market Report by Product (Invasive BCI, Partially Invasive BCI, Non-invasive BCI), Application (Healthcare, Smart Home Control, Communication and Control, Entertainment and Gaming), and Region 2024-2032

<https://marketpublishers.com/r/B545DED53983EN.html>

Date: August 2024

Pages: 144

Price: US\$ 3,899.00 (Single User License)

ID: B545DED53983EN

Abstracts

The global brain computer interface market size reached US\$ 2.0 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 5.4 Billion by 2032, exhibiting a growth rate (CAGR) of 11.5% during 2024-2032.

A brain computer interface (BCI) is a system used for acquiring, analyzing, and translating brain signals into commands using an artificial output device. This device assists in replacing, restoring, enhancing, supplementing, and improving the functions of the central nervous system (CNS). BCI replaces or restores the useful function of individuals suffering from neuromuscular disorders, such as cerebral palsy, amyotrophic lateral sclerosis, or spinal cord injury. It is also useful for rehabilitation after stroke or other disorders. As it finds extensive application in communicating and controlling patients with severe paralysis or in the locked-in syndrome (LIS), its demand is escalating around the world.

Brain Computer Interface Market Trends:

The rising geriatric population, coupled with the increasing prevalence of neurodegenerative disorders such as epilepsy and Alzheimer's and Parkinson's diseases, represents one of the key factors strengthening the growth of the market. Additionally, there is a rise in the integration of BCI technologies with several healthcare applications. This, in confluence with the increasing focus on using BCI technologies to control internet of things (IoT) devices and virtual reality (VR) applications, is propelling

the market growth. Moreover, on account of its high accuracy and reliability and improved security monitoring, BCI technology finds application in controlling smart home applications and activities, such as opening and closing doors and windows and operating the television or music system. Furthermore, technological advancements in bio-sensing, nanotechnology, bio-signal processing, and neuro-imaging techniques, along with increasing investments in research and development (R&D) activities, are offering a positive outlook to the market. Besides this, the increasing adoption of BCI in the defense and military sector is anticipated to stimulate the growth of the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global brain computer interface market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on product and application.

Breakup by Product:

Invasive BCI

Partially Invasive BCI

Non-invasive BCI

Breakup by Application:

Healthcare

Smart Home Control

Communication and Control

Entertainment and Gaming

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Advanced Brain Monitoring Inc., ANT Neuro, Compumedics Limited, EMOTIV, Medtronic plc, Natus Medical Incorporated, NeuroSky Inc., Nihon Kohden Corporation and NIRx Medical Technologies LLC.

Key Questions Answered in This Report

1. What was the size of the global brain computer interface market in 2023?
2. What is the expected growth rate of the global brain computer interface market during 2024-2032?
3. What are the key factors driving the global brain computer interface market?
4. What has been the impact of COVID-19 on the global brain computer interface market?
5. What is the breakup of the global brain computer interface market based on the product?
6. What is the breakup of the global brain computer interface market based on the application?
7. What are the key regions in the global brain computer interface market?
8. Who are the key players/companies in the global brain computer interface market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL BRAIN COMPUTER INTERFACE MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY PRODUCT

- 6.1 Invasive BCI
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Partially Invasive BCI
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Non-invasive BCI

6.3.1 Market Trends

6.3.2 Market Forecast

7 MARKET BREAKUP BY APPLICATION

7.1 Healthcare

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Smart Home Control

7.2.1 Market Trends

7.2.2 Market Forecast

7.3 Communication and Control

7.3.1 Market Trends

7.3.2 Market Forecast

7.4 Entertainment and Gaming

7.4.1 Market Trends

7.4.2 Market Forecast

8 MARKET BREAKUP BY REGION

8.1 North America

8.1.1 United States

8.1.1.1 Market Trends

8.1.1.2 Market Forecast

8.1.2 Canada

8.1.2.1 Market Trends

8.1.2.2 Market Forecast

8.2 Asia-Pacific

8.2.1 China

8.2.1.1 Market Trends

8.2.1.2 Market Forecast

8.2.2 Japan

8.2.2.1 Market Trends

8.2.2.2 Market Forecast

8.2.3 India

8.2.3.1 Market Trends

8.2.3.2 Market Forecast

8.2.4 South Korea

8.2.4.1 Market Trends

- 8.2.4.2 Market Forecast
- 8.2.5 Australia
 - 8.2.5.1 Market Trends
 - 8.2.5.2 Market Forecast
- 8.2.6 Indonesia
 - 8.2.6.1 Market Trends
 - 8.2.6.2 Market Forecast
- 8.2.7 Others
 - 8.2.7.1 Market Trends
 - 8.2.7.2 Market Forecast
- 8.3 Europe
 - 8.3.1 Germany
 - 8.3.1.1 Market Trends
 - 8.3.1.2 Market Forecast
 - 8.3.2 France
 - 8.3.2.1 Market Trends
 - 8.3.2.2 Market Forecast
 - 8.3.3 United Kingdom
 - 8.3.3.1 Market Trends
 - 8.3.3.2 Market Forecast
 - 8.3.4 Italy
 - 8.3.4.1 Market Trends
 - 8.3.4.2 Market Forecast
 - 8.3.5 Spain
 - 8.3.5.1 Market Trends
 - 8.3.5.2 Market Forecast
 - 8.3.6 Russia
 - 8.3.6.1 Market Trends
 - 8.3.6.2 Market Forecast
 - 8.3.7 Others
 - 8.3.7.1 Market Trends
 - 8.3.7.2 Market Forecast
- 8.4 Latin America
 - 8.4.1 Brazil
 - 8.4.1.1 Market Trends
 - 8.4.1.2 Market Forecast
 - 8.4.2 Mexico
 - 8.4.2.1 Market Trends
 - 8.4.2.2 Market Forecast

8.4.3 Others

8.4.3.1 Market Trends

8.4.3.2 Market Forecast

8.5 Middle East and Africa

8.5.1 Market Trends

8.5.2 Market Breakup by Country

8.5.3 Market Forecast

9 SWOT ANALYSIS

9.1 Overview

9.2 Strengths

9.3 Weaknesses

9.4 Opportunities

9.5 Threats

10 VALUE CHAIN ANALYSIS

11 PORTERS FIVE FORCES ANALYSIS

11.1 Overview

11.2 Bargaining Power of Buyers

11.3 Bargaining Power of Suppliers

11.4 Degree of Competition

11.5 Threat of New Entrants

11.6 Threat of Substitutes

12 PRICE ANALYSIS

13 COMPETITIVE LANDSCAPE

13.1 Market Structure

13.2 Key Players

13.3 Profiles of Key Players

13.3.1 Advanced Brain Monitoring Inc.

13.3.1.1 Company Overview

13.3.1.2 Product Portfolio

13.3.2 ANT Neuro

13.3.2.1 Company Overview

- 13.3.2.2 Product Portfolio
- 13.3.3 Compumedics Limited
 - 13.3.3.1 Company Overview
 - 13.3.3.2 Product Portfolio
 - 13.3.3.3 Financials
- 13.3.4 EMOTIV
 - 13.3.4.1 Company Overview
 - 13.3.4.2 Product Portfolio
- 13.3.5 Medtronic plc
 - 13.3.5.1 Company Overview
 - 13.3.5.2 Product Portfolio
 - 13.3.5.3 Financials
 - 13.3.5.4 SWOT Analysis
- 13.3.6 Natus Medical Incorporated
 - 13.3.6.1 Company Overview
 - 13.3.6.2 Product Portfolio
 - 13.3.6.3 Financials
 - 13.3.6.4 SWOT Analysis
- 13.3.7 NeuroSky Inc.
 - 13.3.7.1 Company Overview
 - 13.3.7.2 Product Portfolio
- 13.3.8 Nihon Kohden Corporation
 - 13.3.8.1 Company Overview
 - 13.3.8.2 Product Portfolio
 - 13.3.8.3 Financials
 - 13.3.8.4 SWOT Analysis
- 13.3.9 NIRx Medical Technologies LLC
 - 13.3.9.1 Company Overview
 - 13.3.9.2 Product Portfolio

List Of Tables

LIST OF TABLES

Table 1: Global: Brain Computer Interface Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Brain Computer Interface Market Forecast: Breakup by Product (in Million US\$), 2024-2032

Table 3: Global: Brain Computer Interface Market Forecast: Breakup by Application (in Million US\$), 2024-2032

Table 4: Global: Brain Computer Interface Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 5: Global: Brain Computer Interface Market: Competitive Structure

Table 6: Global: Brain Computer Interface Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Brain Computer Interface Market: Major Drivers and Challenges

Figure 2: Global: Brain Computer Interface Market: Sales Value (in Billion US\$), 2018-2023

Figure 3: Global: Brain Computer Interface Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 4: Global: Brain Computer Interface Market: Breakup by Product (in %), 2023

Figure 5: Global: Brain Computer Interface Market: Breakup by Application (in %), 2023

Figure 6: Global: Brain Computer Interface Market: Breakup by Region (in %), 2023

Figure 7: Global: Brain Computer Interface (Invasive BCI) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 8: Global: Brain Computer Interface (Invasive BCI) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 9: Global: Brain Computer Interface (Partially Invasive BCI) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 10: Global: Brain Computer Interface (Partially Invasive BCI) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 11: Global: Brain Computer Interface (Non-invasive BCI) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 12: Global: Brain Computer Interface (Non-invasive BCI) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 13: Global: Brain Computer Interface (Healthcare) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 14: Global: Brain Computer Interface (Healthcare) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 15: Global: Brain Computer Interface (Smart Home Control) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 16: Global: Brain Computer Interface (Smart Home Control) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 17: Global: Brain Computer Interface (Communication and Control) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 18: Global: Brain Computer Interface (Communication and Control) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 19: Global: Brain Computer Interface (Entertainment and Gaming) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 20: Global: Brain Computer Interface (Entertainment and Gaming) Market

Forecast: Sales Value (in Million US\$), 2024-2032

Figure 21: North America: Brain Computer Interface Market: Sales Value (in Million US\$), 2018 & 2023

Figure 22: North America: Brain Computer Interface Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 23: United States: Brain Computer Interface Market: Sales Value (in Million US\$), 2018 & 2023

Figure 24: United States: Brain Computer Interface Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 25: Canada: Brain Computer Interface Market: Sales Value (in Million US\$), 2018 & 2023

Figure 26: Canada: Brain Computer Interface Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 27: Asia-Pacific: Brain Computer Interface Market: Sales Value (in Million US\$), 2018 & 2023

Figure 28: Asia-Pacific: Brain Computer Interface Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 29: China: Brain Computer Interface Market: Sales Value (in Million US\$), 2018 & 2023

Figure 30: China: Brain Computer Interface Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 31: Japan: Brain Computer Interface Market: Sales Value (in Million US\$), 2018 & 2023

Figure 32: Japan: Brain Computer Interface Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 33: India: Brain Computer Interface Market: Sales Value (in Million US\$), 2018 & 2023

Figure 34: India: Brain Computer Interface Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 35: South Korea: Brain Computer Interface Market: Sales Value (in Million US\$), 2018 & 2023

Figure 36: South Korea: Brain Computer Interface Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 37: Australia: Brain Computer Interface Market: Sales Value (in Million US\$), 2018 & 2023

Figure 38: Australia: Brain Computer Interface Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 39: Indonesia: Brain Computer Interface Market: Sales Value (in Million US\$), 2018 & 2023

Figure 40: Indonesia: Brain Computer Interface Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 41: Others: Brain Computer Interface Market: Sales Value (in Million US\$), 2018 & 2023

Figure 42: Others: Brain Computer Interface Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 43: Europe: Brain Computer Interface Market: Sales Value (in Million US\$), 2018 & 2023

Figure 44: Europe: Brain Computer Interface Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 45: Germany: Brain Computer Interface Market: Sales Value (in Million US\$), 2018 & 2023

Figure 46: Germany: Brain Computer Interface Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 47: France: Brain Computer Interface Market: Sales Value (in Million US\$), 2018 & 2023

Figure 48: France: Brain Computer Interface Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 49: United Kingdom: Brain Computer Interface Market: Sales Value (in Million US\$), 2018 & 2023

Figure 50: United Kingdom: Brain Computer Interface Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 51: Italy: Brain Computer Interface Market: Sales Value (in Million US\$), 2018 & 2023

Figure 52: Italy: Brain Computer Interface Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 53: Spain: Brain Computer Interface Market: Sales Value (in Million US\$), 2018 & 2023

Figure 54: Spain: Brain Computer Interface Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 55: Russia: Brain Computer Interface Market: Sales Value (in Million US\$), 2018 & 2023

Figure 56: Russia: Brain Computer Interface Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 57: Others: Brain Computer Interface Market: Sales Value (in Million US\$), 2018 & 2023

Figure 58: Others: Brain Computer Interface Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 59: Latin America: Brain Computer Interface Market: Sales Value (in Million

US\$), 2018 & 2023

Figure 60: Latin America: Brain Computer Interface Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 61: Brazil: Brain Computer Interface Market: Sales Value (in Million US\$), 2018 & 2023

Figure 62: Brazil: Brain Computer Interface Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 63: Mexico: Brain Computer Interface Market: Sales Value (in Million US\$), 2018 & 2023

Figure 64: Mexico: Brain Computer Interface Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 65: Others: Brain Computer Interface Market: Sales Value (in Million US\$), 2018 & 2023

Figure 66: Others: Brain Computer Interface Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 67: Middle East and Africa: Brain Computer Interface Market: Sales Value (in Million US\$), 2018 & 2023

Figure 68: Middle East and Africa: Brain Computer Interface Market: Breakup by Country (in %), 2023

Figure 69: Middle East and Africa: Brain Computer Interface Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 70: Global: Brain Computer Interface Industry: SWOT Analysis

Figure 71: Global: Brain Computer Interface Industry: Value Chain Analysis

Figure 72: Global: Brain Computer Interface Industry: Porter's Five Forces Analysis

I would like to order

Product name: Brain Computer Interface Market Report by Product (Invasive BCI, Partially Invasive BCI, Non-invasive BCI), Application (Healthcare, Smart Home Control, Communication and Control, Entertainment and Gaming), and Region 2024-2032

Product link: <https://marketpublishers.com/r/B545DED53983EN.html>

Price: US\$ 3,899.00 (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/B545DED53983EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970