

# **Brain Computer Interface Market by Type (Invasive BCI, Non-invasive BCI and Partially Invasive BCI), Application (Communication & Control, Healthcare, Smart Home Control, Entertainment & Gaming, and Others): Global Opportunity Analysis and Industry Forecast, 2020–2027**

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## **Abstracts**

Brain computer Interface (BCI) is a system that facilitates a direct communication pathway between the brain and the peripheral devices that are used to calibrate the movement in physically challenged individuals. A BCI system records the brain signal from the surface of the cortex, through devices implanted within the brain or from the sensors placed over the scalp. These signals are then transmitted to the peripheral device that enables the user to perform numerous tasks. With the help of a BCI system, the paralyzed and handicapped individuals can overcome their physical challenges and perform various day-to-day tasks. The primary function of the BCI device is to intercept the electrical signals that pass between the neurons and transmit them to an external device. Brain computer interface (BCI) is also referred as a brain machine interface (BMI), direct neural interface (DNI) or mind machine interface (MMI).

Numerous technological developments in the field human-machine sensing, application of BCI technology in entertainment, gaming and communication & control, rise in use of BCI technology in healthcare sector are some of the major factors that are driving the BCI market. Intensive research carried out to develop a cure for fatal brain disorders and injuries is expected to boost the market. However, the ethical problem faced during the research and cyber security threats are anticipated to restrict the market growth. On the contrary, integration of AI with BCI, and rise in demand of BCI by SMEs provide lucrative growth opportunities for the global BCI market during the analysis period.

The market is segmented on the basis of type, application and region. The type segment includes invasive BCI, non-invasive BCI and partially invasive BCI. According to application, the BCI market is segmented into communication & control, healthcare, smart home control, entertainment & gaming, and others. Based on region, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

The report includes a comprehensive analysis of the key players operating in the BCI market, which includes Advanced Brain Monitoring, Inc., Cadwell Industries, Inc., OpenBCI, Cortech Solutions, Inc., NeuroSky, Emotiv, G.tec medical engineering GmbH, Natus Medical Incorporated, NIHON KOHDEN CORPORATION, and Integra LifeSciences.

## KEY BENEFITS FOR STAKEHOLDERS

The study provides an in-depth analysis of the global brain computer interface market along with the current & future trends to elucidate the imminent investment pockets.

Information about key drivers, restrains, and opportunities and their impact analyses on the market size is provided in the report.

Porter's five forces analysis illustrates the potency of buyers and suppliers operating in the industry.

The quantitative analysis of the global brain computer interface market from 2019 to 2027 is provided to determine the market potential.

## KEY MARKET SEGMENTS

### By Type

Invasive

Non-invasive

Partially invasive

## By Application

Healthcare

Communication & control

Entertainment & gaming

Smart home control

Others

## BY REGION

North America

U.S.

Canada

Europe

UK

Germany

France

Italy

Rest of Europe

Asia-Pacific

China

India

Japan

Australia

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

## KEY MARKET PLAYERS

Advanced Brain Monitoring, Inc.

Cadwell Industries, Inc.

OpenBCI

Cortech Solutions, Inc.

NeuroSky

Emotiv

G.tec medical engineering GmbH

Natus Medical Incorporated

NIHON KOHDEN CORPORATION

Integra LifeSciences

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