

# Human Machine Interface (HMI) Market - Global Outlook and Forecast 2017-2022

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## Abstracts

The global human machine interface (HMI) market is likely to cross \$7.4 billion, growing impressively at a CAGR of 9% during 2016?2022. Increased in industrial automation and incorporation of HMI in semiconductor fabrication plants and electrical and electronic assembling plants are driving the global market. While the bionic segment will have the largest revenue, the motion segment is expected to grow at a high rate. Despite rapid growth of software interfaces, hardware will be a dominating interface for the global human interface market. North America to dominate the market led by US.

### Report Timeline

Base Year: 2016

Forecast Year: 2017?2022

Major vendors profiled in the report are as following:

Schneider Electric

Rockwell Automation

Siemens

Mitsubishi Electric

Omron

Other vendors ABB, General Electric, Toshiba, Kontron, Honeywell, Panasonic, Bosch Rexroth, Eaton, Emerson, Yokogawa

## **SCOPE OF THE REPORT**

The report includes the current market scenario of the global Human Machine Interface market and includes a detailed study of growth drivers, trends, and restraints. The report also profiles the leading vendors in the market and other key vendors.

The report considers the sale of industrial interfaces for human-machine interaction at the manufacturer level to arrive at the market size. Both the first-time demand and replacement demand were factored in while arriving at the market estimates annually. The revenues cited in the report reflect both the sale of standard offerings and custom offerings by vendors to institutional customers. The resellers market and implementation cases of retrofit were not considered in the report. Revenues were captured for both standalone and institutional sales made and reported by major vendors.

The report provides the analysis of key segments of the HMI market by technology type, configuration, interface, end-user geography, countries and vendors. It provides a detailed analysis of revenue from various segments:

### **Technology Type**

Optical

Acoustic

Bionic

Tactile

Motion

### **Configurations**

Standalone

Embedded

Interface Type

Hardware

Software

End-user

Automotive

Chemicals and petrochemicals

Mining and metallurgy

Paper, packaging, and printing

Food and beverage manufacture and packaging

Healthcare

Oil and gas

Others

Major Geographies

APAC

EMEA

Latin America

North America

## Key Countries

Canada

China

Japan

US

The report provides a holistic view of the global HMI market, the companies involved in the market, and the factors driving its growth. The report also provides information about the latest trends that are likely to become strong market driving forces over the next five years. It also provides the Porter's Five Forces analysis along with a description of each force and its impact on the market. Further, the report also provides complete value chain analysis of the global human machine interface market.

## HMI Market Dynamics

Continuous shift from WIMP-based GUI to Multi-touch GUI will drive the market growth

Internet of Things (IoT) is likely to change data capturing and handling dramatically, automated gesture recognition systems to gather significant interest, moderation and fundamental shifts in the wearables market, and virtualization and automation to majorly impact human machine interface development are among the latest trends that are going to boost the market growth during the forecast period. The report discusses the major trends and drivers, which are likely to shape the human machine interface market. A continuous shift from WIMP (Windows-Icon-Mouse-Pointer Based GUI) to Multi-Touch GUI, rise of augmented reality (AR) and immersive experiences, and overwhelming rise in global industrial automation expenditure are the key factors that are likely to drive the market.

## HMI Market: Segmental Overview

Motion technology to post the highest growth rate of 10% during the forecast period.

Tactile, optical, and acoustic technologies together held 90.7% of the market share in 2016. The main driving factor of these technologies is that they provide effective public interface applications. The bionic technology will be the major revenue contributing segment of the global HMI market. Also, the motion technology will post the highest growth rate of more than 10% during the forecast period.

The analysts at Arizton expect that embedded configuration will have the dominance over the HMI market growing rapidly compared with the standalone segment. Similarly, the software interface will post a rapid growth rate during the forecast period but the hardware interface will remain the dominant segment in terms of revenue. In 2022, the automotive, chemicals and petrochemicals, and food and beverage manufacturing sectors will be the major end-users of the global HMI market.

### HMI Market: Geographical Analysis

North America to remain the largest market followed by Europe

The global HMI market, which is concentrated in four countries, constituting about half of the global market size, is China, Japan, Canada, and the US. The demand for human machine interface implementation in the North America region is driven by a high awareness of their advantages over conventional products, better product availability, and extensive reach of innovative products. The US is the world's largest market for human machine interfaces, driven by a high degree of automation, better availability of range and awareness, followed by China. The market in Europe is largely driven by the demand from key end-user industries in Germany, the UK, and France.

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