

Light Fidelity (Li-Fi)/Visible Light Communication Market by Component (LED, Photo Detector, and Microcontroller), Industry Vertical (Retail, Healthcare, electronics, Automotive & Transport, Aerospace & Aviation, and Defense & security) - Global Opportunity Analysis and Industry Forecast, 2014 - 2022

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Abstracts

Light Fidelity (Li-Fi)/visible light communication facilitates internet facilities in a closed controlled environment such as hospital, airplane, shopping complex, office, and vehicle among others. It is used to provide communication between electronic devices with the help of visible light particularly LED bulbs. This emerging technology has numerous advantages over currently prevalent Wi-Fi technology such as 100 times faster speed and 10,000 times wider bandwidth, which enables the user to transfer large amount of data in very small duration of time. Several exclusive advantages are extensively uplifting the Li-Fi market in various applications such as automated vehicular communications, location based services in retail sector, and inflight communications among others.

The Li-Fi technology does not use EM waves and hence, it is most appropriate to use inside hospital and airplane where Wi-Fi and other radio frequency communications is prohibited due to health and security reasons. Li-Fi has a high adoption rate in military & defense as it provides data sharing in a visible range and cannot be hacked from outside. In addition, Li-Fi is used to facilitate communications where radio frequency waves cannot travel such as under water communication in navy. Furthermore, the growth in Li-Fi market is propelled by its rapid increase in adoption in different applications by the key players. For instance, GE and Qualcomm Atheros have collaborated to provide retailers with Li-Fi enabled lights, which allows them to pinpoint shoppers' locations and use mobile apps to personalize the in-store experience.

Furthermore, a leading company in Li-Fi technology, LVX system, has collaborated with NASA to introduce this technology in space, which will save them from carrying load of excessive wiring for communication inside the space crafts.

Major factors that accelerate the growth in Li-Fi market are enhanced data security, faster transmission rate, wider bandwidth, and high adoption rate in industries such as retail, aerospace & defense. However, inability of transmission under sun light and constraint of distance restrain the growth in the market. On the contrary, being a nascent technology it is expected to have a high adoption rate in the emerging nations which will open new opportunities in the market.

Comparison between properties of Wi-Fi and Li-Fi

Properties

Wi-Fi

Li-Fi

Spectrum used

RF

Visual light

Range

Less than 200 meters

Depends on intensity of light

Cost

High

Low

Security

Less secure than Li-Fi

More secure

Data transfer speed

108 Mbps (with double channel)

100 times faster than Wi-Fi

Standard

IEEE 802.11

IEEE 802.15

The Li-Fi market is segmented on the basis of component, industry vertical, and geography. Based on component, the market is segmented into LED, photo detector, and microcontroller (MCU). Furthermore, the market is categorized on the basis of industry vertical which include retail, electronics, defense & security, automotive & transport, aerospace & aviation, healthcare, and others. Further, the market is analyzed on the basis of four regions, namely, North America, Europe, Asia-Pacific, and LAMEA. The key players profiled in the report include General Electric, Oledcomm S.A.S, Renesas Electronics Corporation, pureLiFi, LVX SYSTEM, Acuity Brands Lighting, Inc.,

Qualcomm technologies Inc., IBSEntelecom Ltd., Koninklijke Philips N.V., and Panasonic Corporation among others.

POTENTIAL BENEFITS FOR STAKEHOLDERS:

This report provides an in-depth analysis of the world Li-Fi market along with current trends and future estimations to identify lucrative investment opportunities

This report identifies the key drivers, opportunities, and restraints that shape the market along with their impact analysis

Porter's Five Forces analysis highlights the potency of buyers and suppliers that participate in this market to facilitate better business decisions for stakeholders and strengthen their supplier and buyer networks

Market estimation of geographical regions is based on the current market scenario and future trends

MARKET SEGMENTATION

The market is segmented on the basis of component, industry vertical, and geography.

BY COMPONENT

LED

Photodetectors

Microcontrollers (MCU)

BY INDUSTRY VERTICAL

Retail

Electronics

Indoor networking

Smart streetlights

Defense & Security

Military operations

Underwater communication in navy

Others

Automotive & Transport

V2V communications

Traffic management

Aerospace & Aviation

inflight communication and infotainment

Space crafts

Healthcare

Others (mining and chemical)

BY GEOGRAPHY

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Russia

Italy

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

KEY PLAYERS

General Electric

Oledcomm S.A.S

Renesas Electronics Corporation

pureLiFi

LVX SYSTEM

Acuity Brands Lighting, Inc.

Qualcomm technologies Inc.

IBSENtelecom ltd.

Koninklijke Philips N.V.

Panasonic Corporation

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