

Li-Fi (Light Fidelity) Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

Market Report | 2023-01-23 | 120 pages | Mordor Intelligence

AVAILABLE LICENSES:

- Single User License \$4750.00
- Team License (1-7 Users) \$5250.00
- Site License \$6500.00
- Corporate License \$8750.00

Report description:

The global light fidelity (Li-Fi) market will register a CAGR of 63.99% during the period. To find things and communicate with other devices, Li-Fi wireless technology makes use of light. It uses LED bulbs as the source and delivers data more quickly than Wi-Fi.

Key Highlights

One of the key reasons driving the use of Li-Fi technology throughout the forecast period is the growing demand for high-speed networks and energy-efficient solutions. The market under study is experiencing an increase in developments, broadening the technology's potential for commercialization.

Additionally, an increase in smart and connected devices has generated a large volume of data, straining the capabilities of current Wi-Fi, 5G, and other networking technologies. Therefore, by offering high-speed connectivity, greater capacity, and improved security, Li-Fi technology can resolve these problems.

Li-Fi can also enable big data and other technologies, including enhanced AI, ML, AR/VR, and IoT. A disruptive technology that will affect numerous industries is Li-Fi. The technology can unleash the IoT's potential, enabling Industry 4.0 applications and the lighting sector's impending light-as-a-service (LaaS).

Adopting the Li-Fi solution may be constrained by the need for more awareness of the technology, restricted range and connectivity, and these issues. Additionally, as the technology is still in its infancy, gadget manufacturers need to include Li-Fi receivers in their products, forcing customers to affix dongles to their gadgets.

The COVID-19 pandemic has significantly disrupted the day-to-day operations of various organizations across the industries. However, with the enormous growth in the number of COVID-19 patients worldwide, hospitals and medical facilities face a severe challenge in treating patients.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Growing Demand for High-speed Network is Expected to Register a Significant Growth

The proliferation of smart and connected gadgets has also led to a tremendous increase in data creation, straining the capabilities of current Wi-Fi, 5G, and other networking technologies. Therefore, by offering high-speed connectivity, greater capacity, and improved security, Li-Fi technology can resolve these problems.

The development of Li-Fi products, which enable wireless networking with light, has occurred concurrently with an increase in research into Li-Fi networking approaches such as multiuser access, interference reduction, and mobility assistance. Additionally, as energy efficiency initiatives are implemented globally, more smart houses and smart cities with energy-efficient technology are anticipated.

The quick improvements have greatly influenced the rapid growth of smart buildings across the regions in information technology, including wireless sensor networks, the Internet of Things (IoT), Big Data, and smartphones. Due to the development of numerous technologies, it is anticipated that there will be an increase in the penetration of smart homes in the regions, providing the Li-Fi market with several opportunities.

As the use of LED lamps in buildings for lighting increases, so do the prospects for Li-Fi-based applications. As long as occupants of smart buildings or residences are adjacent to an LED lamp, they may access the internet without needing additional hardware. Moreover, Li-Fi can be utilized to get internet access to monitor the patients instead of other radio waves, causing overlapping signals. There is probation on mobiles in a few hospital areas due to the overlapping radio waves problems, which can be further avoided by implementing light fidelity in the hospitality systems.

Asia-Pacific is Expected to Hold Significant Share

One of the critical markets for Li-Fi technology is Asia-Pacific. The region is making significant technology investments to improve its internet infrastructure, which presents enormous prospects for the market vendors under study.

Li-Fi, an emerging technology that competes with Wi-Fi in the Asia-Pacific area, where Wi-Fi is essential to transforming the region's digital economy, employs visible light to transport signals wirelessly.

Mainly Installing Li-Fi in addition to Wi-Fi, according to several industry experts in the area, can provide more bandwidth to relieve network congestion and boost streaming and downloading speeds. The Li-Fi market scope will increase alongside the rise of the Wi-Fi industry rather than replacing it.

Moreover, a high-quality visible light communication system would be faster and less expensive than the typical Chinese broadband connection. The Chinese government has been investing in R&D to create one.

For instance, in July 2022, Kyocera SLD Laser, commercialization of laser light sources, was announced, demonstrating a LiFi data rate of 90 Gbps from their LiFi system at the CES 2022.

Additionally, these medical facilities and hospitals use various technologies being developed and used throughout the region, including UV-LED, CT scans, and other radiography technologies, among others, for the early detection and diagnosis of disease, further promoting the prompt treatment of the patients.

Li-Fi Market Competitor Analysis

The companies operating in the Li-Fi market are currently in the R&D phase and have yet to launch products. As a result, the market is fragmented. However, the competition for innovation and production of advanced products is high as companies constantly engage in bringing Li-Fi into use.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

In August 2022 , pureLiFi has announced the recent Kernel release 5.19, broadly acknowledged as a sizable upgrade incorporating security and network improvements that include LiFi drivers to support pureLiFi systems. The official Linux Kernel is the basis for all Linux distributions ranging from Ubuntu and Fedora for PCs and servers to android for mobile devices.

Additional Benefits:

The market estimate (ME) sheet in Excel format
3 months of analyst support

Table of Contents:

1 INTRODUCTION

- 1.1 Study Assumptions and Market Definition
- 1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET INSIGHTS

- 4.1 Market Overview
- 4.2 Industry Value Chain Analysis
- 4.3 Porter Five Forces
 - 4.3.1 Bargaining Power of Suppliers
 - 4.3.2 Bargaining Power of Consumers
 - 4.3.3 Threat of New Entrants
 - 4.3.4 Intensity of Competitive Rivalry
 - 4.3.5 Threat of Substitute Products
- 4.4 Impact of Covid-19 on the Market

5 MARKET DYNAMICS

- 5.1 Market Drivers
 - 5.1.1 Growing Demand For High-Speed Network
 - 5.1.2 Increasing Demand for Energy-efficient Solutions
- 5.2 Market Restraints
 - 5.2.1 Limited Range and Connectivity and Lack of Awareness about the Technology

6 TECHNOLOGY SNAPSHOT

- 6.1 Components of a Li-Fi System
- 6.2 Ongoing Technological Advancements

7 MARKET SEGMENTATION

- 7.1 Application Type
 - 7.1.1 Indoor
 - 7.1.2 Outdoor
- 7.2 Geography
 - 7.2.1 North America

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 7.2.2 Europe
- 7.2.3 Asia-Pacific
- 7.2.4 Latin America
- 7.2.5 Middle East & Africa

8 COMPETITIVE LANDSCAPE

- 8.1 Company Profiles
 - 8.1.1 Signify Holding BV
 - 8.1.2 DRO Co. Ltd
 - 8.1.3 pureLiFi Ltd
 - 8.1.4 LVX System
 - 8.1.5 Oledcomm SAS
 - 8.1.6 Lucibel SA
 - 8.1.7 SLD laser
 - 8.1.8 Velmenni O
 - 8.1.9 LightBee Corp.
 - 8.1.10 Renesas Electronics Corporation

9 INVESTMENT ANALYSIS

10 FUTURE OF THE MARKET

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Li-Fi (Light Fidelity) Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

Market Report | 2023-01-23 | 120 pages | Mordor Intelligence

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	\$4750.00
	Team License (1-7 Users)	\$5250.00
	Site License	\$6500.00
	Corporate License	\$8750.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-02-27"/>
		Signature	

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

