+44 20 8123 2220
info@marketpublishers.com

Li-Fi Market Report by Component (LED Lamps, Optical Sensor, Microcontroller, Software and Others), Application (Indoor Networking, LBS (Location Based Services), In-Flight Communication and Entertainment, Underwater Communication, and Others), Transmission Type (Unidirectional, Bidirectional), End-User (Retail, Consumer Electronics, Automotive and Transportation, Healthcare, Defense and Security, and Others), and Region 2024-2032

https://marketpublishers.com/r/L16F1A02ACEDEN.html
Date: March 2024
Pages: 142
Price: US$ 3,899.00 (Single User License)
ID: L16F1A02ACEDEN

Abstracts

The global Li-Fi market size reached US$ 686.9 Million in 2023. Looking forward, IMARC Group expects the market to reach US$ 22,139.4 Million by 2032, exhibiting a growth rate (CAGR) of 45.7% during 2024-2032.

Light fidelity (Li-Fi), or visible light communication (VLC), refers to a wireless optical networking technology that utilizes light to transfer data at high speeds. It uses the visible light spectrum, ultraviolet (UV) and infrared radiations (IR). The system operates through light-emitting diodes (LEDs) and microcontrollers that trigger the conversion of light waves into electric signals. These signals are then received by photodetectors that interpret the changes in light intensity as data. This technology can connect remote and distant terrains across vast areas that cannot be reached through optical fibers, owing to which it finds extensive applications across various industries, including healthcare, automotive, aerospace, electronics, information technology (IT) and defense.

+44 20 8123 2220
info@marketpublishers.com

The primary factors driving the market growth include hyper-urbanization and the increasing construction of smart cities across the globe. Furthermore, widespread adoption of cloud computing, big data tools and multi-tier data center architectures across industries is also providing a boost to the market growth. In comparison to the traditionally used alternatives, such as Wi-Fi, Li-Fi systems offer massive bandwidth spectrum, higher speeds, enhanced data security and minimal network and radio interference. Additionally, the increasing adoption of automated systems across residential and commercial sectors is creating lucrative opportunities for the industry players for business expansion. The growing applications of indoor location-based services, such as smart car parking, smart lighting, health monitoring, logistics and shopping assistance have increased the demand for high-speed data communication systems. Other factors, including the rising need for advancements in the existing technologies, lowering prices of LED systems and extensive research and development (R&D) activities, are projected to drive the market in the upcoming years.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global Li-Fi market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on component, application, transmission type and end user.

Breakup by Component:

LED Lamps
Optical Sensor
Microcontroller
Software
Others

Breakup by Application:

Indoor Networking
LBS (Location Based Services)
In-Flight Communication and Entertainment
Underwater Communication
Others

Breakup by Transmission Type:

+44 20 8123 2220
info@marketpublishers.com

Unidirectional
Bidirectional

Breakup by End-User:

Retail
Consumer Electronics
Automotive and Transportation
Healthcare
Defense and Security
Others

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

+44 20 8123 2220
info@marketpublishers.com

Competitive Landscape:

The competitive landscape of the industry has also been examined with some of the key players being FSOna Networks Corp, General Electric Co., LG Innotek, Lightpointe Communications, Lucibel, LVX System, Oledcomm, Philips, PureLi-Fi Ltd., Semicon Light Company, Sunpartner Technologies, Wipro LLC, etc.

Key Questions Answered in This Report

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

+44 20 8123 2220
info@marketpublishers.com

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 LI-FI MARKET

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

6 MARKET BREAKUP BY COMPONENT

6.1 LED Lamps
  6.1.1 Market Trends
  6.1.2 Market Forecast
6.2 Optical Sensor
  6.2.1 Market Trends
  6.2.2 Market Forecast
6.3 Microcontroller

+44 20 8123 2220
info@marketpublishers.com

6.3.1 Market Trends
6.3.2 Market Forecast
6.4 Software
6.4.1 Market Trends
6.4.2 Market Forecast
6.5 Others
6.5.1 Market Trends
6.5.2 Market Forecast

7 MARKET BREAKUP BY APPLICATION

7.1 Indoor Networking
7.1.1 Market Trends
7.1.2 Market Forecast
7.2 LBS (Location Based Services)
7.2.1 Market Trends
7.2.2 Market Forecast
7.3 In-Flight Communication and Entertainment
7.3.1 Market Trends
7.3.2 Market Forecast
7.4 Underwater Communication
7.4.1 Market Trends
7.4.2 Market Forecast
7.5 Others
7.5.1 Market Trends
7.5.2 Market Forecast

8 MARKET BREAKUP BY TRANSMISSION TYPE

8.1 Unidirectional
8.1.1 Market Trends
8.1.2 Market Forecast
8.2 Bidirectional
8.2.1 Market Trends
8.2.2 Market Forecast

9 MARKET BREAKUP BY END-USER

9.1 Retail

+44 20 8123 2220
info@marketpublishers.com

9.1.1 Market Trends
9.1.2 Market Forecast
9.2 Consumer Electronics
9.2.1 Market Trends
9.2.2 Market Forecast
9.3 Automotive and Transportation
9.3.1 Market Trends
9.3.2 Market Forecast
9.4 Healthcare
9.4.1 Market Trends
9.4.2 Market Forecast
9.5 Defense and Security
9.5.1 Market Trends
9.5.2 Market Forecast
9.6 Others
9.6.1 Market Trends
9.6.2 Market Forecast

10 MARKET BREAKUP BY REGION

10.1 North America
10.1.1 United States
10.1.1.1 Market Trends
10.1.1.2 Market Forecast
10.1.2 Canada
10.1.2.1 Market Trends
10.1.2.2 Market Forecast
10.2 Asia Pacific
10.2.1 China
10.2.1.1 Market Trends
10.2.1.2 Market Forecast
10.2.2 Japan
10.2.2.1 Market Trends
10.2.2.2 Market Forecast
10.2.3 India
10.2.3.1 Market Trends
10.2.3.2 Market Forecast
10.2.4 South Korea
10.2.4.1 Market Trends

+44 20 8123 2220
info@marketpublishers.com

10.2.4.2 Market Forecast
10.2.5 Australia
10.2.5.1 Market Trends
10.2.5.2 Market Forecast
10.2.6 Indonesia
10.2.6.1 Market Trends
10.2.6.2 Market Forecast
10.2.7 Others
10.2.7.1 Market Trends
10.2.7.2 Market Forecast
10.3 Europe
10.3.1 Germany
10.3.1.1 Market Trends
10.3.1.2 Market Forecast
10.3.2 France
10.3.2.1 Market Trends
10.3.2.2 Market Forecast
10.3.3 United Kingdom
10.3.3.1 Market Trends
10.3.3.2 Market Forecast
10.3.4 Italy
10.3.4.1 Market Trends
10.3.4.2 Market Forecast
10.3.5 Spain
10.3.5.1 Market Trends
10.3.5.2 Market Forecast
10.3.6 Russia
10.3.6.1 Market Trends
10.3.6.2 Market Forecast
10.3.7 Others
10.3.7.1 Market Trends
10.3.7.2 Market Forecast
10.4 Latin America
10.4.1 Brazil
10.4.1.1 Market Trends
10.4.1.2 Market Forecast
10.4.2 Mexico
10.4.2.1 Market Trends
10.4.2.2 Market Forecast

+44 20 8123 2220
info@marketpublishers.com

10.4.3 Others
10.4.3.1 Market Trends
10.4.3.2 Market Forecast
10.5 Middle East and Africa
10.5.1 Market Trends
10.5.2 Market Breakup by Country
10.5.3 Market Forecast

11 SWOT ANALYSIS

11.1 Overview
11.2 Strengths
11.3 Weaknesses
11.4 Opportunities
11.5 Threats

12 VALUE CHAIN ANALYSIS

12.1 Overview
12.2 Research and Development
12.3 Product Design
12.4 Component Manufacturers
12.5 System Integrators
12.6 Communication Network Providers
12.7 System Installation
12.8 End-Users

13 PORTERS FIVE FORCES ANALYSIS

13.1 Overview
13.2 Bargaining Power of Buyers
13.3 Bargaining Power of Suppliers
13.4 Degree of Competition
13.5 Threat of New Entrants
13.6 Threat of Substitutes

14 COMPETITIVE LANDSCAPE

14.1 Market Structure

+44 20 8123 2220
info@marketpublishers.com

14.2 Key Players
14.3 Profiles of Key Players
14.3.1 FSOna Networks Corp
14.3.1.1 Company Overview
14.3.1.2 Product Portfolio
14.3.2 General Electric Co.
14.3.2.1 Company Overview
14.3.2.2 Product Portfolio
14.3.2.3 Financials
14.3.2.4 SWOT Analysis
14.3.3 LG Innotek Co. Ltd.
14.3.3.1 Company Overview
14.3.3.2 Product Portfolio
14.3.4 Lightpointe Communications Inc.
14.3.4.1 Company Overview
14.3.4.2 Product Portfolio
14.3.5 Lucibel
14.3.5.1 Company Overview
14.3.5.2 Product Portfolio
14.3.5.3 Financials
14.3.6 LVX System
14.3.6.1 Company Overview
14.3.6.2 Product Portfolio
14.3.7 Oledcomm
14.3.7.1 Company Overview
14.3.7.2 Product Portfolio
14.3.8 Philips
14.3.8.1 Company Overview
14.3.8.2 Product Portfolio
14.3.9 PureLi-Fi Ltd.
14.3.9.1 Company Overview
14.3.9.2 Product Portfolio
14.3.10 Semicon Light Co. Ltd.
14.3.10.1 Company Overview
14.3.10.2 Product Portfolio
14.3.11 Sunpartner Technologies
14.3.11.1 Company Overview
14.3.11.2 Product Portfolio
14.3.12 Wipro LLC

+44 20 8123 2220
info@marketpublishers.com

14.3.12.1 Company Overview
14.3.12.2 Product Portfolio

+44 20 8123 2220
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1: Global: Li-Fi Market: Key Industry Highlights, 2023 and 2032
Table 2: Global: Li-Fi Market Forecast: Breakup by Component (in Million US$), 2024-2032
Table 3: Global: Li-Fi Market Forecast: Breakup by Application (in Million US$), 2024-2032
Table 4: Global: Li-Fi Market Forecast: Breakup by Transmission Type (in Million US$), 2024-2032
Table 5: Global: Li-Fi Market Forecast: Breakup by End-User (in Million US$), 2024-2032
Table 6: Global: Li-Fi Market Forecast: Breakup by Region (in Million US$), 2024-2032
Table 7: Global: Li-Fi Market: Competitive Structure
Table 8: Global: Li-Fi Market: Key Players

+44 20 8123 2220
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

Figure 1: Global: Li-Fi Market: Major Drivers and Challenges
Figure 2: Global: Li-Fi Market: Sales Value (in Million US$), 2018-2023
Figure 3: Global: Li-Fi Market: Breakup by Component (in %), 2023
Figure 4: Global: Li-Fi Market: Breakup by Application (in %), 2023
Figure 5: Global: Li-Fi Market: Breakup by Transmission Type (in %), 2023
Figure 6: Global: Li-Fi Market: Breakup by End-User (in %), 2023
Figure 7: Global: Li-Fi Market: Breakup by Region (in %), 2023
Figure 8: Global: Li-Fi Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 9: Global: Li-Fi (LED Lamps) Market: Sales Value (in Million US$), 2018 & 2023
Figure 10: Global: Li-Fi (LED Lamps) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 11: Global: Li-Fi (Optical Sensor) Market: Sales Value (in Million US$), 2018 & 2023
Figure 12: Global: Li-Fi (Optical Sensor) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 13: Global: Li-Fi (Microcontroller) Market: Sales Value (in Million US$), 2018 & 2023
Figure 14: Global: Li-Fi (Microcontroller) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 15: Global: Li-Fi (Software) Market: Sales Value (in Million US$), 2018 & 2023
Figure 16: Global: Li-Fi (Software) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 17: Global: Li-Fi (Other Components) Market: Sales Value (in Million US$), 2018 & 2023
Figure 18: Global: Li-Fi (Other Components) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 19: Global: Li-Fi (Indoor Networking) Market: Sales Value (in Million US$), 2018 & 2023
Figure 20: Global: Li-Fi (Indoor Networking) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 21: Global: Li-Fi (Location Based Services) Market: Sales Value (in Million US$), 2018 & 2023
Figure 22: Global: Li-Fi (Location Based Services) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 23: Global: Li-Fi (In-Flight Communication and Entertainment) Market: Sales

+44 20 8123 2220
info@marketpublishers.com

Value (in Million US$), 2018 & 2023
Figure 24: Global: Li-Fi (In-Flight Communication and Entertainment) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 25: Global: Li-Fi (Underwater Communication) Market: Sales Value (in Million US$), 2018 & 2023
Figure 26: Global: Li-Fi (Underwater Communication) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 27: Global: Li-Fi (Other Applications) Market: Sales Value (in Million US$), 2018 & 2023
Figure 28: Global: Li-Fi (Other Applications) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 29: Global: Li-Fi (Unidirectional) Market: Sales Value (in Million US$), 2018 & 2023
Figure 30: Global: Li-Fi (Unidirectional) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 31: Global: Li-Fi (Bidirectional) Market: Sales Value (in Million US$), 2018 & 2023
Figure 32: Global: Li-Fi (Bidirectional) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 33: Global: Li-Fi (Retail) Market: Sales Value (in Million US$), 2018 & 2023
Figure 34: Global: Li-Fi (Retail) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 35: Global: Li-Fi (Consumer Electronics) Market: Sales Value (in Million US$), 2018 & 2023
Figure 36: Global: Li-Fi (Consumer Electronics) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 37: Global: Li-Fi (Automotive and Transportation) Market: Sales Value (in Million US$), 2018 & 2023
Figure 38: Global: Li-Fi (Automotive and Transportation) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 39: Global: Li-Fi (Healthcare) Market: Sales Value (in Million US$), 2018 & 2023
Figure 40: Global: Li-Fi (Healthcare) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 41: Global: Li-Fi (Defense and security) Market: Sales Value (in Million US$), 2018 & 2023
Figure 42: Global: Li-Fi (Defense and security) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 43: Global: Li-Fi (Other End-Users) Market: Sales Value (in Million US$), 2018 & 2023

+44 20 8123 2220
info@marketpublishers.com

Figure 44: Global: Li-Fi (Other End-Users) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 45: North America: Li-Fi Market: Sales Value (in Million US$), 2018 & 2023
Figure 46: North America: Li-Fi Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 47: United States: Li-Fi Market: Sales Value (in Million US$), 2018 & 2023
Figure 48: United States: Li-Fi Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 49: Canada: Li-Fi Market: Sales Value (in Million US$), 2018 & 2023
Figure 50: Canada: Li-Fi Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 51: Asia Pacific: Li-Fi Market: Sales Value (in Million US$), 2018 & 2023
Figure 52: Asia Pacific: Li-Fi Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 53: China: Li-Fi Market: Sales Value (in Million US$), 2018 & 2023
Figure 54: China: Li-Fi Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 55: Japan: Li-Fi Market: Sales Value (in Million US$), 2018 & 2023
Figure 56: Japan: Li-Fi Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 57: India: Li-Fi Market: Sales Value (in Million US$), 2018 & 2023
Figure 58: India: Li-Fi Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 59: South Korea: Li-Fi Market: Sales Value (in Million US$), 2018 & 2023
Figure 60: South Korea: Li-Fi Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 61: Australia: Li-Fi Market: Sales Value (in Million US$), 2018 & 2023
Figure 62: Australia: Li-Fi Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 63: Indonesia: Li-Fi Market: Sales Value (in Million US$), 2018 & 2023
Figure 64: Indonesia: Li-Fi Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 65: Others: Li-Fi Market: Sales Value (in Million US$), 2018 & 2023
Figure 66: Others: Li-Fi Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 67: Europe: Li-Fi Market: Sales Value (in Million US$), 2018 & 2023
Figure 68: Europe: Li-Fi Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 69: Germany: Li-Fi Market: Sales Value (in Million US$), 2018 & 2023
Figure 70: Germany: Li-Fi Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 71: France: Li-Fi Market: Sales Value (in Million US$), 2018 & 2023
Figure 72: France: Li-Fi Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 73: United Kingdom: Li-Fi Market: Sales Value (in Million US$), 2018 & 2023
Figure 74: United Kingdom: Li-Fi Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 75: Italy: Li-Fi Market: Sales Value (in Million US$), 2018 & 2023
Figure 76: Italy: Li-Fi Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 77: Spain: Li-Fi Market: Sales Value (in Million US$), 2018 & 2023
Figure 78: Spain: Li-Fi Market Forecast: Sales Value (in Million US$), 2024-2032

+44 20 8123 2220
info@marketpublishers.com

Figure 79: Russia: Li-Fi Market: Sales Value (in Million US$), 2018 & 2023
Figure 80: Russia: Li-Fi Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 81: Others: Li-Fi Market: Sales Value (in Million US$), 2018 & 2023
Figure 82: Others: Li-Fi Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 83: Latin America: Li-Fi Market: Sales Value (in Million US$), 2018 & 2023
Figure 84: Latin America: Li-Fi Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 85: Brazil: Li-Fi Market: Sales Value (in Million US$), 2018 & 2023
Figure 86: Brazil: Li-Fi Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 87: Mexico: Li-Fi Market: Sales Value (in Million US$), 2018 & 2023
Figure 88: Mexico: Li-Fi Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 89: Others: Li-Fi Market: Sales Value (in Million US$), 2018 & 2023
Figure 90: Others: Li-Fi Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 91: Middle East and Africa: Li-Fi Market: Sales Value (in Million US$), 2018 & 2023
Figure 92: Middle East and Africa: Li-Fi Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 93: Global: Li-Fi Industry: SWOT Analysis
Figure 94: Global: Li-Fi Industry: Value Chain Analysis
Figure 95: Global: Li-Fi Industry: Porter’s Five Forces Analysis

+44 20 8123 2220
info@marketpublishers.com

I would like to order

Product name: Li-Fi Market Report by Component (LED Lamps, Optical Sensor, Microcontroller, Software and Others), Application (Indoor Networking, LBS (Location Based Services), In-Flight Communication and Entertainment, Underwater Communication, and Others), Transmission Type (Unidirectional, Bidirectional), End-User (Retail, Consumer Electronics, Automotive and Transportation, Healthcare, Defense and Security, and Others), and Region 2024-2032

Product link: https://marketpublishers.com/r/L16F1A02ACEDEN.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/L16F1A02ACEDEN.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

Custumer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms

+44 20 8123 2220
info@marketpublishers.com

& 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