

# **Worldwide Wireless Fidelity (Wi-Fi) and Light Fidelity (Li-Fi) Market – Drivers, Opportunities, Trends, and Forecasts: 2016–2022**

<https://marketpublishers.com/r/W5CD83275C7EN.html>

Date: May 2017

Pages: 126

Price: US\$ 3,500.00 (Single User License)

ID: W5CD83275C7EN

## **Abstracts**

### **Overview:**

Wired networks incur gamut components for installing internet connection. It not only surges cost, but with the components such as switches, hubs, and Ethernet cables, whole frame drives in multiple complexities. To overcome such challenges, Wi-Fi has become a great alternative. This technology implements high-frequency radio waves instead of wired networks. Similar to Wi-Fi, another technology Li-Fi has emerged that uses visible light communication instead of radio signals. Li-Fi delivers high-speed in a much more secure way that even the latest Wi-Fi advancements cannot offer. Li-Fi allows 100 times faster data transmission than Wi-Fi, making it more competent.

### **Market Analysis:**

The Wi-Fi and Li-Fi markets are estimated to witness a CAGR of 15.0% and 61.3%, respectively during the forecast period 2016–2022. The Wi-Fi market is analyzed by deployment mode, products, services, verticals, and regions. The Li-Fi market is analyzed by components, verticals, and regions. Increasing productivity, high speed, reliable & secure communication, and flexibility are the main reasons to switch to wireless Wi-Fi and Li-Fi technology. The Li-Fi market is emerging and being developed, which would likely lead to an increase in the adoption of Li-Fi in the next 5–7 years.

### **Regional Analysis:**

The Americas is set to be the leading region for the Wi-Fi and Li-Fi market growth followed by Europe and Asia Pacific for the adoption of technologies. Asia Pacific is

known for improvements in infrastructure and IT investments by MNCs. Thus, the region will have enormous potential for Wi-Fi connections. MEA is set to be the emerging region with a lot of opportunities and is expected to reach \$4.09 billion (Wi-Fi) and \$827.9 million (Li-Fi), respectively by 2022.

#### Vertical Analysis:

The major verticals covered in the report are IT & telecom, education, healthcare, BFSI, retail, aerospace (in-flight operations), traffic management, underwater applications, and indoor networking. Globally, the industry players are showing interest towards Wi-Fi and Li-Fi technology. The Wi-Fi technology is already being incorporated and is widely accepted in IT & telecom, education, and healthcare sectors due to the organization's shift towards wireless ecosystem. The indoor networking segment is set to be the leading vertical for Li-Fi technology. The market revenue for indoor networking and traffic management is expected to reach \$654.2 million and \$5,509.4 million, respectively by 2022.

#### Key Players:

pureLiFi, IBSENtelecom, Alcatel-Lucent, Ericsson, Hewlett-Packard Enterprise (HPE), Cisco, Lucibel, Ruckus Wireless, GE Lighting, Renesas Electronics Corp., LIGHTBEE, Velmenni, and Oledcomm S.A.S.

#### Competitive Analysis:

The Wi-Fi & Li-Fi are becoming demanding technologies. There are enormous business opportunities for new players entering the market and collaborating with large players in providing various products and services. Especially for Li-Fi technology, new start-ups are coming with technologically advanced products, services, and solutions in the market and are expected to see double-digit growth in the next 5–7 years. In this space, collaboration and merger & acquisition activities are expected to continue.

#### Benefits:

The report provides an in-depth analysis of the Wi-Fi & Li-Fi market aiming to understand the networking environment. The report talks about deployment mode, products, services, components, verticals, and regions for both Li-Fi and Wi-Fi. The key stakeholders can know about the major trends, drivers, investments, vertical player's initiatives, and government initiatives towards the adoption in the next 5–7 years.

Moreover, the report provides details about the major challenges impacting the market growth.

## Contents

### **1 INDUSTRY OUTLOOK**

- 1.1 Industry Overview
- 1.2 Industry Trends
- 1.3 PEST Analysis

### **2 REPORT OUTLINE**

- 2.1 Report Scope
- 2.2 Report Summary
- 2.3 Research Methodology
- 2.4 Report Assumptions

### **3 MARKET SNAPSHOT**

- 3.1 Total Addressable Market (TAM)
- 3.2 Segmented Addressable Market (SAM)
  - 3.2.1 Wi-Fi Market
  - 3.2.2 Li-Fi Market
- 3.3 Related Markets
  - 3.3.1 Wired Communication
  - 3.3.2 Unified Communication

### **4 MARKET OUTLOOK**

- 4.1 Introduction
- 4.2 Market Definition- Infoholic Research
- 4.3 Evolution of Wireless Network Technologies
- 4.4 Li-Fi
  - 4.4.1 Architecture of Li-Fi
  - 4.4.2 Li-Fi Advantages and Disadvantages
- 4.5 Architecture of Wi-Fi
- 4.6 Wi-Fi versus Li-Fi
- 4.7 Porter 5 (Five) Forces

### **5 MARKET CHARACTERISTICS**

## 5.1 Wireless Protocols of Data Transition

## 5.2 Market Dynamics

### 5.2.1 Drivers

#### 5.2.1.1 Network speed

#### 5.2.1.2 Increasing productivity

#### 5.2.1.3 Increasing demand for wireless devices

#### 5.2.1.4 Cost effective

### 5.2.2 Restraints

#### 5.2.2.1 Network Coverage

#### 5.2.2.2 Security concerns

#### 5.2.2.3 Lack of knowledge

### 5.2.3 Opportunities

#### 5.2.3.1 New business opportunities for SMEs

#### 5.2.3.2 Increase in investment

#### 5.2.3.3 Smart Infrastructure

### 5.2.4 DRO – Impact Analysis

## 6 WI-FI MARKET

### 6.1 Deployment Mode

#### 6.1.1 Indoor Wi-Fi

#### 6.1.2 Outdoor Wi-Fi

#### 6.1.3 Transportation Wi-Fi

### 6.2 Products

#### 6.2.1 Access Points (APs)

#### 6.2.2 Wireless Local Area Network (WLAN) Controllers

#### 6.2.3 Wireless Hotspot Gateway

#### 6.2.4 Others

### 6.3 Services

#### 6.3.1 Network Planning and Design

#### 6.3.2 Installation

#### 6.3.3 Support

#### 6.3.4 Others

### 6.4 Verticals

#### 6.4.1 IT & Telecom

#### 6.4.2 BFSI

#### 6.4.3 Healthcare

#### 6.4.4 Education

#### 6.4.5 Retail

6.4.6 Public Sector

6.4.7 Others

6.5 Regions

6.5.1 Americas

6.5.1.1 US

6.5.1.2 Canada

6.5.1.3 Brazil

6.5.1.4 Mexico

6.5.2 Europe

6.5.2.1 UK

6.5.2.2 Germany

6.5.2.3 France

6.5.3 Asia Pacific

6.5.3.1 India

6.5.3.2 China

6.5.3.3 South Korea

6.5.4 Middle East & Africa (MEA)

6.5.4.1 UAE

6.5.4.2 South Africa

## **7 LI-FI MARKET**

7.1 Components

7.1.1 LED

7.1.2 Microcontrollers

7.1.3 Photodetectors

7.2 Verticals

7.2.1 Underwater Applications

7.2.2 Aerospace (In-flight operations)

7.2.3 Education

7.2.4 Healthcare

7.2.5 Traffic Management

7.2.6 Defence & Communication Security

7.2.7 Indoor Networking

7.2.8 Others

7.3 Regions

7.3.1 Americas

7.3.1.1 US

7.3.1.2 Canada

### 7.3.2 Europe

#### 7.3.2.1 UK

#### 7.3.2.2 France

#### 7.3.2.3 Germany

### 7.3.3 Asia Pacific

#### 7.3.3.1 China

#### 7.3.3.2 Japan

#### 7.3.3.3 India

#### 7.3.3.4 Others

### 7.3.4 MEA

## 8 VENDOR PROFILES

### 8.1 pureLiFi

#### 8.1.1 Overview

#### 8.1.2 Business Unit

#### 8.1.3 Geography Presence

#### 8.1.4 Business Focus

#### 8.1.5 SWOT Analysis

#### 8.1.6 Business Strategy

### 8.2 IBSENtelecom Ltd.

#### 8.2.1 Overview

#### 8.2.2 Business Unit

#### 8.2.3 Geography Presence

#### 8.2.4 Business Focus

#### 8.2.5 SWOT Analysis

#### 8.2.6 Business Strategy

### 8.3 Alcatel-Lucent SA

#### 8.3.1 Overview

#### 8.3.2 Business Segments

#### 8.3.3 Geographic Revenue

#### 8.3.4 Business Focus

#### 8.3.5 SWOT Analysis

#### 8.3.6 Business Strategies

### 8.4 Ericsson

#### 8.4.1 Overview

#### 8.4.2 Business Segments

#### 8.4.3 Geographic Revenue

#### 8.4.4 Business Focus

8.4.5 SWOT Analysis

8.4.6 Business Strategies

## 8.5 Hewlett-Packard Enterprise (HPE)

8.5.1 Overview

8.5.2 Business Unit

8.5.3 Geographic Revenue

8.5.4 Business Focus

8.5.5 SWOT Analysis

8.5.6 Business Strategy

## 9 GLOBAL GENERALIST

### 9.1 Cisco System Inc.

9.1.1 Overview

9.1.2 Cisco Market

9.1.3 Cisco in Wi-Fi & Li-Fi Market

### 9.2 Lucibel

9.2.1 Overview

9.2.2 Lucibel Market

9.2.3 Lucibel in Li-Fi Market

### 9.3 Ruckus Wireless, Inc.

9.3.1 Overview

9.3.2 Ruckus Wireless Market

9.3.3 Ruckus Wireless in Wi-Fi Market

### 9.4 GE Lighting

9.4.1 Overview

9.4.2 GE Lighting Market

9.4.3 GE Lighting in Li-Fi Market

### 9.5 Renesas Electronics Corp

9.5.1 Overview

9.5.2 Renesas Electronics Market

9.5.3 Renesas in Li-Fi Market

## 10 COMPANIES TO WATCH FOR

### 10.1 LIGHTBEE

10.1.1 Overview

10.1.2 LIGHTBEE Market

10.1.3 LIGHTBEE Li-Fi offering



## 10.2 Velmenni

### 10.2.1 Overview

### 10.2.2 Velmenni Market

### 10.2.3 Velmenni Li-Fi Offering

## 10.3 Oledcomm S.A.S

### 10.3.1 Overview

### 10.3.2 Oledcomm Market

### 10.3.3 Oledcomm Li-Fi Offering

## 11 COMPETITIVE LANDSCAPE

### 11.1 Overview

#### 11.1.1 Alcatel-Lucent

#### 11.1.2 Ericsson

#### 11.1.3 Aruba, a Hewlett Packard Enterprise

#### 11.1.4 pureLiFi

#### 11.1.5 IBSENtelecom Ltd.

### Annexure

### ? Abbreviations

## List Of Tables

### LIST OF TABLES

Table 1 LI-FI ADVANTAGES AND DISADVANTAGES

Table 2 WI-FI ADVANTAGES AND DISADVANTAGES

Table 3 WI-FI VERSUS LI-FI

Table 4 COMPARISON OF LI-FI, WI-FI, BLUETOOTH, UWB, AND ZIGBEE

Table 5 WI-FI MARKET REVENUE BY DEPLOYMENT MODE, 2016–2022 (\$BILLION)

Table 6 WI-FI MARKET REVENUE BY PRODUCTS, 2016–2022 (\$BILLION)

Table 7 WI-FI MARKET REVENUE BY SERVICES, 2016–2022 (\$BILLION)

Table 8 WIRELESS NETWORK PLANNING AND DESIGN (ACTIVITIES & DELIVERABLES)

Table 9 WI-FI MARKET REVENUE BY GEOGRAPHICAL SEGMENTATION, 2016–2022 (\$BILLION)

Table 10 AMERICAS: DRIVERS, RESTRAINTS, & OPPORTUNITIES

Table 11 AMERICAS WI-FI MARKET REVENUE BY DEPLOYMENT MODE, 2016–2022 (\$BILLION)

Table 12 AMERICAS WI-FI MARKET REVENUE BY PRODUCTS, 2016–2022 (\$BILLION)

Table 13 AMERICAS WI-FI MARKET REVENUE BY SERVICES, 2016–2022 (\$BILLION)

Table 14 EUROPE: DRIVERS, RESTRAINTS, & OPPORTUNITIES

Table 15 EUROPE WI-FI MARKET REVENUE BY DEPLOYMENT MODE, 2016–2022 (\$BILLION)

Table 16 EUROPE WI-FI MARKET REVENUE BY PRODUCTS, 2016–2022 (\$BILLION)

Table 17 EUROPE WI-FI MARKET REVENUE BY SERVICES, 2016–2022 (\$BILLION)

Table 18 ASIA PACIFIC: DRIVERS, RESTRAINTS, & OPPORTUNITIES

Table 19 ASIA PACIFIC WI-FI MARKET REVENUE BY DEPLOYMENT MODE, 2016–2022 (\$BILLION)

Table 20 ASIA PACIFIC WI-FI MARKET REVENUE BY PRODUCTS, 2016–2022 (\$BILLION)

Table 21 ASIA PACIFIC WI-FI MARKET REVENUE BY SERVICES, 2016–2022 (\$BILLION)

Table 22 MIDDLE EAST & AFRICA: DRIVERS, RESTRAINTS, & OPPORTUNITIES

Table 23 MIDDLE EAST & AFRICA WI-FI MARKET REVENUE BY DEPLOYMENT MODE, 2016–2022 (\$BILLION)

Table 24 MIDDLE EAST & AFRICA WI-FI MARKET REVENUE BY PRODUCTS,

2016–2022 (\$BILLION)

Table 25 MIDDLE EAST & AFRICA WI-FI MARKET REVENUE BY SERVICES,  
2016–2022 (\$BILLION)

Table 26 LI-FI MARKET REVENUE BY COMPONENTS, 2016–2022 (\$MILLION)

Table 27 LI-FI MARKET REVENUE BY VERTICALS, 2016–2022 (\$MILLION)

Table 28 LI-FI MARKET REVENUE BY GEOGRAPHICAL SEGMENTATION,  
2016–2022 (\$MILLION)

Table 29 AMERICAS: DRIVERS, RESTRAINTS, & OPPORTUNITIES

Table 30 AMERICAS LI-FI MARKET REVENUE BY COMPONENTS, 2016–2022  
(\$MILLION)

Table 31 AMERICAS LI-FI MARKET REVENUE BY VERTICALS, 2016–2022  
(\$MILLION)

Table 32 EUROPE: DRIVERS, RESTRAINTS, & OPPORTUNITIES

Table 33 EUROPE LI-FI MARKET REVENUE BY COMPONENTS, 2016–2022  
(\$MILLION)

Table 34 EUROPE LI-FI MARKET REVENUE BY VERTICALS, 2016–2022 (\$MILLION)

Table 35 ASIA PACIFIC: DRIVERS, RESTRAINTS, & OPPORTUNITIES

Table 36 ASIA PACIFIC LI-FI MARKET REVENUE BY COMPONENTS, 2016–2022  
(\$MILLION)

Table 37 ASIA PACIFIC LI-FI MARKET REVENUE BY VERTICALS, 2016–2022  
(\$MILLION)

Table 38 MEA: DRIVERS, RESTRAINTS, & OPPORTUNITIES

Table 39 MEA LI-FI MARKET REVENUE BY COMPONENTS, 2016–2022 (\$MILLION)

Table 40 MEA LI-FI MARKET REVENUE BY VERTICALS, 2016–2022 (\$MILLION)

## List Of Charts

### LIST OF CHARTS

- Chart 1 PEST ANALYSIS OF WI-FI AND LI-FI MARKET
- Chart 2 RESEARCH METHODOLOGY OF WORLDWIDE WI-FI AND LI-FI MARKET
- Chart 3 WI-FI MARKET REVENUE, 2016–2022 (\$BILLION)
- Chart 4 LI-FI MARKET REVENUE, 2016–2022 (\$MILLION)
- Chart 5 ELECTROMAGNETIC SPECTRUM
- Chart 6 EVOLUTION OF WIRELESS NETWORK TECHNOLOGIES
- Chart 7 ARCHITECTURE OF LI-FI
- Chart 8 ARCHITECTURE OF WI-FI
- Chart 9 PORTER 5 FORCES ON WI-FI & LI-FI MARKET
- Chart 10 DIFFERENT WIRELESS PROTOCOLS OF SPEED OF THE DATA TRANSITION
- Chart 11 MARKET DYNAMICS – DRIVERS, RESTRAINTS & OPPORTUNITIES
- Chart 12 WI-FI MARKET SHARE BY DEPLOYMENT MODE, 2016 AND 2022
- Chart 13 INDOOR MARKET REVENUE, 2016–2022 (\$BILLION)
- Chart 14 OUTDOOR MARKET REVENUE, 2016–2022 (\$BILLION)
- Chart 15 TRANSPORTATION WI-FI MARKET REVENUE, 2016–2022 (\$BILLION)
- Chart 16 WI-FI MARKET SHARE BY PRODUCTS, 2016 AND 2022
- Chart 17 WIRELESS ACCESS POINT
- Chart 18 ACCESS POINTS MARKET REVENUE, 2016–2022 (\$BILLION)
- Chart 19 WLAN CONTROLLER
- Chart 20 WIRELESS LOCAL AREA NETWORK CONTROLLERS MARKET REVENUE, 2016–2022 (\$BILLION)
- Chart 21 WIRELESS HOTSPOT GATEWAY
- Chart 22 WIRELESS HOTSPOTS GATEWAY MARKET REVENUE, 2016–2022 (\$BILLION)
- Chart 23 OTHERS MARKET REVENUE, 2016–2022 (\$BILLION)
- Chart 24 WI-FI MARKET SHARE BY SERVICES, 2016 AND 2022
- Chart 25 NETWORK PLAN & DESIGN MARKET REVENUE, 2016–2022 (\$BILLION)
- Chart 26 INSTALLATION MARKET REVENUE, 2016–2022 (\$BILLION)
- Chart 27 SUPPORT MARKET REVENUE, 2016–2022 (\$BILLION)
- Chart 28 OTHERS MARKET REVENUE, 2016–2022 (\$BILLION)
- Chart 29 WI-FI MARKET SHARE BY VERTICALS, 2016 AND 2022
- Chart 30 IT & TELECOM MARKET REVENUE, 2016–2022 (\$BILLION)
- Chart 31 BFSI MARKET REVENUE, 2016–2022 (\$BILLION)
- Chart 32 HEALTHCARE MARKET REVENUE, 2016–2022 (\$BILLION)

- Chart 33 EDUCATION MARKET REVENUE, 2016–2022 (\$BILLION)
- Chart 34 RETAIL MARKET REVENUE, 2016–2022 (\$BILLION)
- Chart 35 PUBLIC SECTOR MARKET REVENUE, 2016–2022 (\$BILLION)
- Chart 36 OTHERS MARKET REVENUE, 2016–2022 (\$BILLION)
- Chart 37 WI-FI MARKET SHARE BY REGIONS, 2016 AND 2022
- Chart 38 AMERICAS MARKET REVENUE, 2016–2022 (\$BILLION)
- Chart 39 EUROPE MARKET REVENUE, 2016–2022 (\$BILLION)
- Chart 40 ASIA PACIFIC MARKET REVENUE, 2016–2022 (\$BILLION)
- Chart 41 MEA MARKET REVENUE, 2016–2022 (\$BILLION)
- Chart 42 LI-FI MARKET SHARE BY COMPONENTS, 2016 AND 2022
- Chart 43 LED MARKET REVENUE, 2016–2022 (\$MILLION)
- Chart 44 MICROCONTROLLERS MARKET REVENUE, 2016–2022 (\$MILLION)
- Chart 45 PHOTODETECTORS MARKET REVENUE, 2016–2022 (\$MILLION)
- Chart 46 LI-FI MARKET SHARE BY VERTICALS, 2016 AND 2022
- Chart 47 UNDERWATER APPLICATIONS MARKET REVENUE, 2016–2022 (\$MILLION)
- Chart 48 UNDERWATER APPLICATIONS
- Chart 49 AEROSPACE (IN-FLIGHT OPERATIONS) MARKET REVENUE, 2016–2022 (\$MILLION)
- Chart 50 EDUCATION MARKET REVENUE, 2016–2022 (\$MILLION)
- Chart 51 HEALTHCARE MARKET REVENUE, 2016–2022 (\$MILLION)
- Chart 52 TRAFFIC MANAGEMENT
- Chart 53 TRAFFIC MANAGEMENT MARKET REVENUE, 2016–2022 (\$MILLION)
- Chart 54 DEFENCE & COMMUNICATION SECURITY MARKET REVENUE, 2016–2022 (\$MILLION)
- Chart 55 INDOOR NETWORKING MARKET REVENUE, 2016–2022 (\$MILLION)
- Chart 56 OTHERS MARKET REVENUE, 2016–2022 (\$MILLION)
- Chart 57 LI-FI MARKET SHARE BY GEOGRAPHICAL SEGMENTATION, 2016 AND 2022
- Chart 58 AMERICAS MARKET REVENUE, 2016–2022 (\$MILLION)
- Chart 59 EUROPE MARKET REVENUE, 2016–2022 (\$MILLION)
- Chart 60 ASIA PACIFIC MARKET REVENUE, 2016–2022 (\$MILLION)
- Chart 61 MEA MARKET REVENUE, 2016–2022 (\$MILLION)
- Chart 62 PURELIFI: OVERVIEW SNAPSHOT
- Chart 63 PURELIFI: BUSINESS SEGMENTS
- Chart 64 PURELIFI: GEOGRAPHIC REVENUE
- Chart 65 IBSENTELECOM LTD.: OVERVIEW SNAPSHOT
- Chart 66 IBSENTELECOM LTD: BUSINESS SEGMENTS
- Chart 67 IBSENTELECOM LTD: GEOGRAPHIC PRESENCE

Chart 68 IBSENTELECOM LTD: SWOT ANALYSIS  
Chart 69 ALCATEL-LUCENT: OVERVIEW SNAPSHOT  
Chart 70 ALCATEL-LUCENT: BUSINESS SEGMENTS  
Chart 71 ALCATEL-LUCENT: GEOGRAPHIC REVENUE  
Chart 72 ALCATEL-LUCENT: SWOT ANALYSIS  
Chart 73 ERICSSON: OVERVIEW SNAPSHOT  
Chart 74 ERICSSON: BUSINESS SEGMENTS  
Chart 75 ERICSSON: GEOGRAPHIC REVENUE  
Chart 76 ERICSSON: SWOT ANALYSIS  
Chart 77 HPE: OVERVIEW SNAPSHOT  
Chart 78 HPE: BUSINESS SEGMENTS  
Chart 79 HPE: GEOGRAPHIC REVENUE  
Chart 80 HPE: SWOT ANALYSIS  
Chart 81 CISCO: MARKET OUTLOOK  
Chart 82 LUCIBEL: MARKET OUTLOOK  
Chart 83 RUCKUS WIRELESS: MARKET OUTLOOK  
Chart 84 GE LIGHTING: MARKET OUTLOOK  
Chart 85 RENESAS ELECTRONICS: MARKET OUTLOOK  
Chart 86 LIGHTBEE MARKET OVERVIEW  
Chart 87 VELMENNI MARKET OVERVIEW  
Chart 88 OLEDCOMM MARKET OVERVIEW

## I would like to order

Product name: Worldwide Wireless Fidelity (Wi-Fi) and Light Fidelity (Li-Fi) Market – Drivers, Opportunities, Trends, and Forecasts: 2016–2022

Product link: <https://marketpublishers.com/r/W5CD83275C7EN.html>

Price: US\$ 3,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/W5CD83275C7EN.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**

Customer signature \_\_\_\_\_

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

