Li-Fi Market: The Next Generation Data Transmission Hotspots

The global Li-Fi technology market has international, regional and local players who compete to take over the market increasing their market share.

HYDERABAD, TELANGANA, INDIA, September 5, 2018 /EINPresswire.com/ -- The global (Light-Fidelity) Li-Fi technology market has international, regional and local players who compete to take over the market increasing their market share. However, top players like Koninklijke Philips N.V., Bytelight, Panasonic, Fujitsu, Renesas dominate the market by brand name. The high market growth and supportive government policies to use LEDs which save energy have attracted more players into the market while enhancing the competition. This competitiveness owing to the design of detailed strategies, products, technology aspects, investment areas will boost the market turning the environment into Li-Fi enabling safety and security to the browsing information.

However, there are still challenges that need attention. These challenges normally disrupt the connectivity by limiting the performance and reducing the efficiency of network making the market decline. Since Li-Fi works on the principle of Line of Sight, it has to deal with the changing weather conditions when the network setup is indoors or outdoors.

Although the Li-Fi technology works using light as a source of energy, it is not always reliable as there are electricity malfunctions that may lead to disconnection of the built network. There are also physical obstacles that disrupt the network as these do not let the signals to pass through them. Li-Fi uses VLC (Visible Light Communication) systems to transmit data which is highly expensive to install turning out be an economic barrier.

Like any other technology, Li-Fi technology also has limitations to overcome. Li-Fi cannot be installed without lights and signals cannot pass through physical objects limiting the network to certain locations. Other sources of light, such as sunlight will often interrupt the internet when outdoors.

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Li-Fi being a new technology has many drivers that are responsible for its penetration into the market. The drivers include usage of LED bulbs, Location Based Service (LBS), looming RF spectrum crunch, growing requirement for high-speed data transmission, sprouting number of internet users, low interference, huge bandwidth spectrum, high degree of efficiency with low power consumption, high durability, etc.

The LED bulbs with the exceptional ability to save energy is considered as a cost-effective means to transmit data. As LED lights are narrowed natural beamers, they don't travel through the walls securing the browsing information. Thus using LED bulbs have been encouraged in Li-Fi Technology. RF spectrum, being in crisis is slowly moving away from spectrum as radio frequency is prohibited in few areas. Also keeping the fact in mind that connectivity time increases with the increase in number of devices, Li-Fi technology is preferred to Wi-Fi. Contrarily, Li-Fi uses visible light spectrum which is 10,000 times bigger than RF spectrum. Therefore it is evident that reducing demand for radio frequency is helping the Li-Fi market grow.

Combining Li-Fi Technology and solar panel to create a self-mechanized receiver is an opportunity for solar manufacturers as well as Li-Fi technology service providers to design solar panels that can self-power them. Also increase in the number of radio frequency sensitive areas will contribute a major share in the Li-Fi market. Favorable government polices to save energy will encourage the adoption of Li-Fi technology which uses LED lamps. The opportunities for the Li-Fi market will grow only when Wi-Fi technology is completely replaced by Li-Fi. Location Based Service (LBS) should be used to detect connectivity problems in order to overcome the same.

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These opportunities leave many chances for the Li-Fi market to grow, in terms of profits as well as market share. The installation of Li-Fi technology in Wi-Fi sensitive areas will be an added benefit to the market to showcase its growth. Again, the future Li-Fi technology will make the lives of people easier by initializing Machine- to- Machine communication. Thus the applications of Li-Fi will replace the need for Wi-Fi enabling data transmission from one place to another.

Li-Fi technology market report is segmented as indicated below:
1. Li-Fi Technology Market –By Devices
1.1. Introduction
1.2. LED Bulbs
1.3. Image Sensor
1.4. Opto-coupler
1.5. Photodiode
1.6. Microcontroller
1.7. Others

2. Li-Fi Technology Market –By Applications
2.1. Intrinsically safe environment
2.1.1. RF Restricted Environment
2.1.2. Aircraft Cabins
2.1.3. Operation Theatres in Hospitals
2.1.4. Ocean Beds
2.1.5. Sensitive Areas such as Power Plants
2.2. Smart lighting
2.3. Mobile Connectivity
2.4. Vehicles & Traffic Management
2.5. Solar Panel
2.6. Seminars / Lecture Halls in Education System
2.7. Street Lamps
2.8. Disaster Management
2.9. Others
2.9.1. Location Based Services
2.9.2. Toys

3. Li-Fi Technology Market –By End User Industries
3.1 Oil and Gas
3.2 Automotive and Transportation
3.3 Healthcare
3.4 Energy and Power
3.5 Aviation
3.6 Defense & Security
3.7 Others

4. Li-Fi Technology Market – By Market Entropy
5. Li-Fi Technology Market – By Geography

Companies Cited/Interviewed/Referenced
PureLi-Fi Ltd
Lucibel
Oledcomm
Sunpartner Technologies
LG Innotek Co.,Ltd
Yuyang D & U Co.,Ltd.
Semicon Light Co.,Ltd.
Wipro,LLC
Lightpointe Communications, Inc.
FSOna Networks Corp.
Bridgelux,Inc
Cree,Inc
Company 20+

Related Reports:

A. Visible Light Communication Market
https://industryarc.com/Report/15036/visible-light-communications-market.html

B. Next Generation Communication Technologies Market
https://industryarc.com/Report/7387/next-generation-communication-technologies-market-report.html

What can you expect from the report?
The Li-Fi Market Report is Prepared with the Main Agenda to Cover the following 20 points:

1. Market Size by Product Categories
2. Market trends
3. Manufacturer Landscape
4. Distributor Landscape
5. Pricing Analysis
6. Top 10 End user Analysis
7. Product Benchmarking
8. Product Developments
9. Mergers & Acquisition Analysis
10. Patent Analysis
11. Demand Analysis (By Revenue & Volume)
12. Country level Analysis (15+)
13. Competitor Analysis
14. Market Shares Analysis
15. Value Chain Analysis
16. Supply Chain Analysis
17. Strategic Analysis
18. Current & Future Market Landscape Analysis
19. Opportunity Analysis
20. Revenue and Volume Analysis

Frequently Asked Questions:

Q. Does IndustryARC publish country, or application based reports in Li-Fi Market?
Response: Yes, we do have separate reports and database as mentioned below:

1. North America Li-Fi Market (2018-2023)
2. South America Li-Fi Market (2018-2023)
3. Europe Li-Fi Market (2018-2023)
4. Asia Pacific Li-Fi Market (2018-2023)
5. Middle East and Africa Li-Fi Market (2018-2023)
6. Opto-coupler Li-Fi Market (2018-2023)
7. Aircraft Cabins Li-Fi Market (2018-2023)
8. Vehicles & Traffic Management Li-Fi Market (2018-2023)
9. Healthcare Li-Fi Market (2018-2023)

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