



High performance
secure data connectivity
where you need it



High performance secure data connectivity where you need it

With the rapid growth of wireless-connected devices, reliable and secure connectivity is more critical than ever. Conventional wireless solutions use the licensed and crowded radio spectrum to communicate. More importantly, there are areas where RF-based communication is not permitted or not possible. LiFi uses InfraRed light invisible to the human eye and offers you consistent high-speed connectivity and an additional layer of security.

What is LiFi?

LiFi, short for light fidelity, is a wireless communication technology that uses light waves instead of radio frequencies. The light is capable of transmitting data through a range of light spectrum, such as visible light, ultraviolet and infrared light.

LiFi enables fast and secure data transfer that ensures user needs. With growing concerns about radio communication and data leaks, LiFi also benefits by adding an additional layer of physical security: light stays in the room.

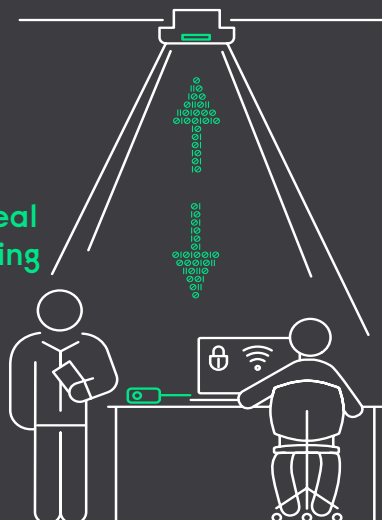
Ideal connectivity

Consistent high-speed connections

Unique physical security

Keep your data private

Low latency for real time data streaming



LiFi applications

Digital industries

Enabling IoT applications where radio-based internet does not work or is not allowed



Office

Increasing productivity in your office while your data is safe

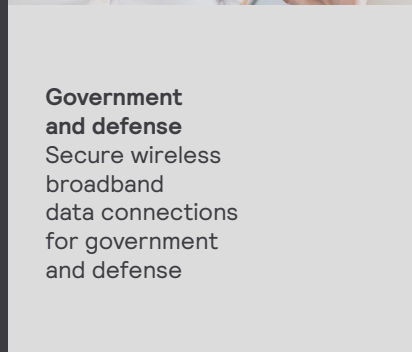
Devices

Secure, wireless high-speed data with ultra-low latency for flawless XR experiences



Aero and transportation

Creating the best online experience for traveling



Government and defense

Secure wireless broadband data connections for government and defense



Education

Study and work wirelessly, flexibly and radio-free

Digital Industries

As factory automation evolves along the road to Industry 4.0, digitalization can be seen affecting several business areas:

Trends in the digital industry space



Smart global supply chain



Flexible manufacturing



Intelligent distribution

Government and Defense

Changing geo-political climate with increased cyber-security threats, requires more secure communications, while keeping the speed of installation and ease of wireless connectivity.

Trends in the government and defense space



No Radio
No Wi-Fi



Secure and authenticated connections



Traceable network activities

Manufacturing and logistics operators (as well as related businesses) are increasingly in need of real-time data and flexibility. For example, on last-yards connections and to control smart vehicles.

Signify Trulifi offers a robust, low latency, and highly stable broadband connection, one that is every bit as good as a wired connection, or in other words, 'stable as a cable... but wireless!'. And it's ideal for places where wireless connectivity is poor or restricted and flexibility is required.

New procedures and doctrines have increased awareness on the necessity for IT systems which are hard to detect and difficult to intercept. Additionally such systems shall be reliable, secure fast and easy to deploy and provide resilience to the latest cyber security threats.

LiFi can protect this freedom while maintaining data security, by providing secure and authenticated connections and because light does not travel through walls. In essence, it's as immune to eavesdropping as a cable would be!

Case study

Wieland Electric

Wieland Electric is investigating the use of LiFi at its in-house manufacturing facilities, where it develops applications for industrial environments.

LiFi is seen here at work on a production line for high quality electronic components. Configuration data are sent to the machine, while information on output or faults is sent back to the Wieland operating data collection system.

Reference case:

Ministry of Dutch Defense application for Government and Defense

LiFi is now being used by the Dutch Defense due to its flexibility of installation and no risk of radio frequency interference. LiFi enables them security and ensures no data speed drops or interference even during taxiing maneuvers on an airstrip!



Offices & Education

Several business trends are increasing the demand for better connectivity in the office environment:

Trends in the offices and education



Flexible workspaces
(>1 person per workplace)



Some countries
Wi-Fi not allowed
in schools



Remote and
Cloud based
working and
education

Other use cases and applications

When vast amount of data need to be transferred wireless and secure, and where radio communications is not possible and cables are not practical

Signify Trulifi



Local and secure
manufacturing and
supply chain



> 130 years of
innovation



Compliance

In some countries legislation stipulates that schools should limit the use of WiFi (radio) networks. Connecting cables to accommodate 20 to 30 students with a laptop can be a challenge.

Signify Trulifi gives you the flexibility of working wirelessly and does it without radio, as LiFi works via light. Trulifi provides you with speeds of up to 220 Mbps. Smart hand-over and interference management turn wireless connectivity into a hassle-free experience. And the provision of access keys and strictly defined communications areas ensures absolute security at all times.

As the market leader in lighting solutions Signify has the knowledge, processes, resources and expertise to provide turn key solutions for your connectivity challenges.

Whether your use case requires connectivity of devices, between vehicles or aero applications, Signify Trulifi can provide a solution. Backed by over 130 years of innovation, industrialisation and manufacturing, Signify has the organisation and quality and compliance processes in place to answer on your connectivity needs.

Case study

World Forum The Hague application for Office and Hospitality

World Forum installed LiFi to ensure that their guests can feel secure about their data and enjoy the fast wireless connection. Trulifi offers an additional layer of security with LiFi and that makes it the best fit for World Forum.

Case study

The Rosetta Rossi school in Rome

Rome is the first city in Italy, and one of the first in the world, to experiment with LiFi in a school. Trulifi was chosen to offer better performance and more security for the students.



LiFi product overview



Trulifi 6002 – Point to Multi Point system

- Providing RF-free wireless connectivity
- ITU-T G.9991 based Scalable 'entry level' LiFi system
- Plug & Play (MS Windows and MacOS)
- Easily integrates into select luminaires for seamless deployment and minimal disruption.

Trulifi 6004 – Point to Multi Point system

- IEEE 802.11 based security and authentication
- FIPS 140-3 validated crypto engine
- Rapid deployment with intuitive setup—ready to go in minutes.



Trulifi 6014 – Point to Point system

- Providing flexible and wireless connectivity where cables are impractical and RF does not work
- Max. data rate up to 840 Mbps
- Connections up to 20 meters
- Ruggedized housing, IP 66 rating

Trulifi 6016 – Point to Point system

- Transportable, Fast and Easy to deploy
- Connections up to 300 meters
- Intuitive operation
- IP 65



Trulifi 6801 Controller

- Centrally commission and manage your LiFi system
- Provides Interference Management and Handover for Trulifi 6002 system
- Enables and supports SNMP v3.0 for Trulifi 6002, Trulifi 6014 and Trulifi 6016

For more information go to:

www.trulifi.com