



by  signify

High performance
secure data connectivity
where you need it



LiFi applications

High performance secure data connectivity where you need it

Is the quality of your WiFi unpredictable?
Is radio-based communications not permitted
or unwanted? Wireless connectivity is a must
have. Conventional connectivity solutions
use the crowded radio spectrum to
communicate. LiFi works via light and
offers you a unique level of security and
consistent high-speed connectivity.

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.

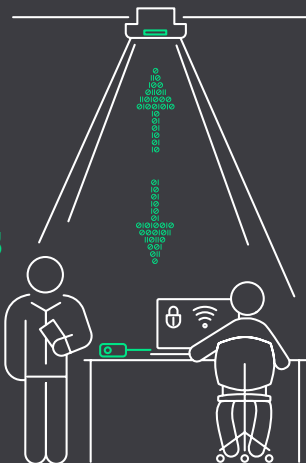
Ideal connectivity

Consistent high-speed connections

Unique physical security

Keep your data private

Low latency for real time data streaming



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

Offices

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

Trends in the office space



Flexible workspaces (>1 person per workplace)



Increased use of cloud-based work



More online collaboration tools (like Skype™, Teams™)



More "rent a spot" "hot desking"

Education

When it comes to educating young people, the education markets shows some trends of its own:

Trends in Education



Legislation limiting and/or prohibiting the use of radio networks (WiFi, 4/5G)



Increasing use of online tools, therefore high-performance networks are needed



Security and data privacy is a general concern

For real estate owners and developers, Trulifi can potentially increase the value of their property by offering business renters stable, fast and secure network access alongside their current platform.

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.

In some countries legislation stipulates that schools should limit the use of WiFi (radio) networks. Many schools have to fall back to using cabled internet connections to enable teachers and students to work with their online education tools. Besides running a cable to a digital whiteboard, connecting cables to accommodate 20 to 30 students with a laptop can be a challenge.

Trulifi by Signify 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, enough to download a gigabyte in 40 seconds or work with multiple online tools without any hiccups.

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.



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



Customer centricity



Smart global supply chain



Digital Factory



Intelligent distribution

Government and Defense

The mobile generation expects ubiquitous access to the internet. But security concerns are driving new needs in government and defense buildings and other areas:

Trends in the government and defense space



Digitalization of services



Increased use of cloud-based work



High security



High demands for government and defense working online

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

Trulifi from Signify 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.

The trend to more flexible work environments as well as the increase in online services has created more freedom for people... but it has also increased concerns about security. Walls have ears, right? The truth is, many password-protected networks are vulnerable.

LiFi can protect this freedom while maintaining data security, 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 F-35 maneuvers on an airstrip!



LiFi product overview

Trulifi 6002 system

| Type | Product description | Order code | Max. data rate DL/UL [Mbit/s] | Roaming |
|-----------------------------|------------------------|--------------|-------------------------------|---------|
| 6002.1 | Access Point | 912500101793 | 150/140 | - |
| 6002.2 | Access Point | 912500101791 | 220/160 | * |
| 6002.1 | Transceiver | 912500101812 | | |
| 6002.1 | USB Key | 912500101792 | | |
| 6002 Ceiling Holder Rec ESS | Ceiling Holder Rec ESS | 912500101579 | | |
| 6002 POF Cable EU 10 m | POF Cable EU 10 m | 912500102094 | | |
| 6002 POF Cable NA 10 m | POF Cable NA 10 m | 912500102283 | | |

* Licenses and Controller Unit or Controller Application are required. These are sold separately, see section Trulifi 6800 Controllers.

Trulifi 6014 systems

| Type | Product description | Order code | Max. data rate [Mbit/s] | Max. operating range [m] |
|----------------------|--------------------------------|----------------|-------------------------|--------------------------|
| 6014.01 APMB | Access Point 6014 | 9125 001 04193 | 528 | 0.7 - 20 |
| 6014.01 EPMB | End Point 6014 | 9125 001 04194 | 528 | 0.7 - 20 |
| 6014.02 APMV | Access Point 6014 | 9125 001 04195 | 845 | 0.5 - 12 |
| 6014.02 EPMV | End Point 6014 | 9125 001 04196 | 845 | 0.5 - 12 |
| Trulifi 6014 POINTER | Laser pointer for 6014 | 9125 001 04197 | | |
| Trulifi 6014 MOUNT | Fine-adjustment mount for 6014 | 9125 001 04198 | | |

Trulifi 6800 controllers

| Type | Product description | Order code | Compatible systems |
|--------------|--|--------------|--------------------|
| 6800.00 | Controller Unit EU* | 912500103432 | 6002.1, 6002.2 |
| 6800.01 | Controller Unit NA* | 912500103433 | 6002.1, 6002.2 |
| 6800.20 | Controller Application* | 912500103434 | 6002.1 6002.2 |
| 6800 ROAMING | License for Roaming on 6002.2 system | 912500103435 | 6002.2 |
| 6800 NMC | License for Network Monitoring and Control | 912500103436 | 6002.1, 6002.2 |

* Licenses sold separately



For more information go to:

www.trulifi.com