



by Signify

High performance
secure data connectivity
where you need it



High performance secure data connectivity where you need it

Is the quality of your wireless connectivity 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 physical 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

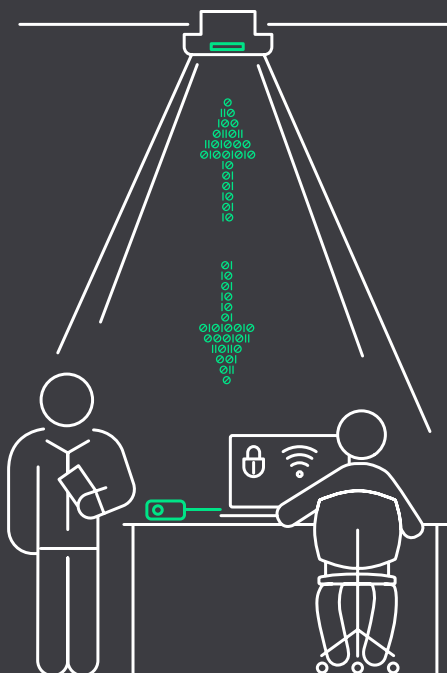
Consistent high-speed connections

Unique physical security

Keep your data private

Low latency for real time data streaming

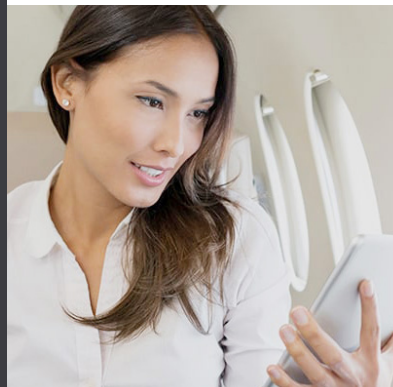
Instantly operational as the light-spectrum is license free



LiFi applications

Government and defense

Secure wireless broadband data connections for government and defense

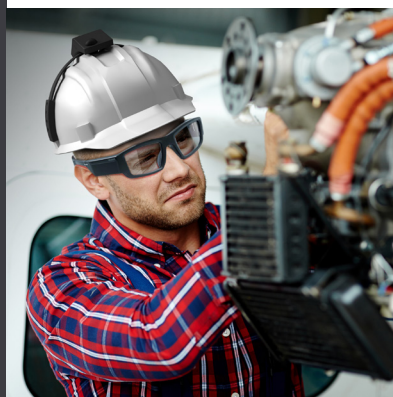


Aero and transportation

Creating the best online experience for traveling

Education

Study and work wirelessly, flexibly and radio-free



Devices

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

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

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

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.

Government and Defense

Fast, reliable, uncorrupted and above all secure communications has always been essential to military operations.

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

Radio frequency communication is heavily used in the defense domain but can easily be detected, broadcasts can be jammed. The available bandwidth is increasingly crowded while the bandwidth required on an increasingly digitized battlefield grows relentlessly.

LiFi can be a great connectivity alternative when radio is not an option. Light can't penetrate walls keeping data transfer within an enclosed space. LiFi cannot be intercepted or detected externally. Data won't leak from the line of sight and one has to find and intercept a narrow, invisible beam.

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		
6002.22	USB Key PnP	912500103437		
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 6016 systems

Type	Product description	Order code	Max. data rate [Mbit/s]	Max. operating range [m]
6016.01 APMC1	Trulifi 6016.01 Access Point APMC1 red	9125 001 04199	940	10 – 300
6016.01 EPMC1	Trulifi 6016.01 End Point EPMC1 red	9125 001 04201	940	10 – 300
6016.01 APMC2	Trulifi 6016 01 Access Point APMC2 green	9125 001 04202	940	10 – 300
6016.01 EPMC2	Trulifi 6016.01 End Point EPMC2 green	9125 001 04203	940	10 – 300
6016 MOUNT	Fine adjuster for wall mounting	9125 001 04206		
6016 AIRCASE KIT 1	6016.01 APMC2 + 6016.01 EPMC2 + Peli case, Vizors, brackets, tripods, hammer, pegs, cables. POE injectors	9125 001 04204		

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