trulifi
by Ⓢignify

Trulifi for Office

Trulifi for office:

Reliable, fast and secure network access without comprise on your lighting solution.

Introducing Trulifi for office
Trulifi for office is made for the modern office or hospitality application. With an IR/IR unit several luminaire-families can be upgraded with Trulifi, with a download and upload speed of 150 Mbps. Up to 6 units are connected, creating a homogenous work space with perfect hand over and no interference for up to 16 users. The newly designed personal USB access key can be connected to any laptop. Creating a secure meeting space or area with fast reliable internet was never easier.
Signify offers a broad portfolio of luminaires with the Trulifi option, making sure customers can create the optimal lighting solution, without compromise. Diming function, circadian rhythm, or switching off the light point will not affect the Trulifi performance.

Why chose Trulifi?

Secured Network
In order to connect to LiFi you need to be in the equipped room and have a personal USB key. This provides you a safe and secure environment.

Reliable network
LiFi is more reliable and stable than other radio-based connectivity platforms. The light spectrum provides more capacity, and therefore can provide guaranteed bandwidth

Preferred network
It is ideal for use in areas that are sensitive to radio frequencies or areas that have poor or no radio communication, such as WiFi.

Trulifi Office 6002

The Trulifi 6000 system for office consists of a central modem, up to 6 infrared units and up to 16 USB access keys. The infrared units are tailored to fit EasySense slots in our luminaire families and therefor will not limit the ability to have the perfect lighting solution. With multiple modems the system can be scaled to cover large rooms or even complete office buildings.

The personal USB access keys can be connected to any Windows or macOS laptop or PC, enabling standard devices to be upgraded to Trulifi clients.

The system comes with all cables and drivers to enable a fast and easy installation, working seamlessly with the current network solutions.

Benefits
• Best-in-class performance
• No interference with lighting equipment
• Perfect integration with luminaires

Trulifi Modem 6002 specification

Mains voltage	110-240 V, 50/60 Hz
System Power	32 W
Power Factor:	0.45
average ambient temperature	25 ºC
Operating temperature range	+10 to +40 ºC
Network communication	Data link input connection RJ45 Cat. 5 Ethernet cable
Aggregated physical layer speed	320 Mbps
Net Speed	Up to 130 Mbps upload / 140 Mbps download at 1.8 m distance between Trulifi 6002 USB and Trulifi 6002 IR/IR
Multi-user capability	Up to 16 users with one Trulifi 6002 Modem
Transmission mode	half duplex
Minimum distance between Trulifi 6002 USB & IR/IR unit	1.8 m
Encryption	End-to-End encryption based on AES-128
Standard	Designed for ITU 9991

Trulifi IR/IR 6002 specification

Voltage	24 VDC provided by the Trulifi 6002 Modem
System Power	5 W at 230 VAC (supplied by Trulifi 6002 Modem)
Downlink wireless optical communication support	Infrared
average ambient temperature	25 ºC
Operating temperature range	+10 to +40 ºC
Network communication	Data link input connection RJ12 SFTP
Minimum distance between Trulifi 6002 USB & IR/IR unit	1.8 m
Operational distance	between 1.8 m and 2.8 m distance between USB access key & IR/IR unit
Trulifi connectivity coverage spread	1.0 m radius per transceiver at 1.8 m distance between USB access key & IR/IR unit

Trulifi USB 6002 specification

Voltage	5 VDC provided via USB 3.0
System Power	3.5 W
Uplink wireless optical communication support	Infrared
average ambient temperature	25 ºC
Operating temperature range	+10 to +35 ºC
Network communication	Data link input connection USB Type-C
Uplink data rate Single user	Up to 140 MB/s
Minimum distance between Trulifi 6002 USB & IR/IR unit	1.8 m
Operational distance	between 1.8 m and 2.8 m distance between USB access key & IR/IR unit
Trulifi connectivity coverage spread	1.0 m per transceiver at a 1.8 m distance between USB access key & IR/IR unit

Environment

Life Time	30.000 Hours
Operating Temperature	+10 +35 ºC
Humidity	20 – 90% no-condensing
Storage temperature	–40 +80 ºC
Standards	IEC 62368-1, IEC 62471, IEC 60825-1, IEC 60825-12
CE Mark	