



# Technical specification

## Provides a reliable, fast and secure network access

### Introducing Trulifi 6013

Data connections should be reliable, secure and designed for the environment they are used in. A lot of environments are not suitable for radio communication, either because it is not allowed, it does not work, or they are not secure enough.

Moving to the light spectrum, Trulifi 6013 provides a fast, reliable alternative for cabled solutions or radio-solutions. Trulifi 6013 was designed to establish a robust connectivity solution for machine to machine communications, network to device connectivity or fulfill other connectivity needs.

Besides the high level of physical layer security due to the line-of-sight optical beam transmission, Trulifi 6013 establishes an encrypted connection to further ensure that the data is protected and safe.

## Why chose Trulifi?



### Secured Network

To connect to LiFi you need to be in the equipped room to be able to connect, providing you a safe and secure environment.



### Reliable network

Trulifi is ideal for busy areas, such as multi-tenancy buildings, stations, airports and public areas. Network availability and overload are no longer an issue. Trulifi provides guaranteed bandwidth without interference from other radio-based communication systems.



### Preferred network

It is ideal for use in areas that are sensitive to radio frequencies or areas that have poor or no WiFi.

# Trulifi 6013

Trulifi 6013 comes in three different models. A USB 3.1-C version which can be connected to any Windows or MacOS system. An Ethernet PoE powered version which can connect to an existing PoE network port and a non PoE powered RJ45 version which connects to any standard 100/1000 Base-TX Ethernet port and is externally powered via a 5V  $\mu$ USB-port connection

The unique range, up to 8 meters, and the unique speed, on physical layer 750 Mbps, provides a fast alternative for a cable or radio system.

The plug and play design ensures easy on site installation and commissioning. The integrated on board software provides the user with an easy option to change settings and modify login, security and performance parameters.

## Benefits

- Best-in-class performance
- No interference with lighting equipment
- Suitable for machine to machine and device to network connections.



## General Specifications

Mode of operation	Point-to-Point/Point-to-Multipoint
Transmission mode	TDMA with dynamic bandwidth allocation
Modulation	OFDM (ITU G.9991 standard ready)
Aggregated speed physical layer	750 Mbps
Net Speed	250Mbps upload / 250 Mbps download
Latency	< 2 ms
Power consumption	max. 4 W (full traffic load)
Operating temperature	-10°C to +40°C
Protection class	IP40
Network protocol	Ethernet (transparent)
Security	128-bit AES CCMP Encryption
Management	GUI based Web-Interface
Quality of Service	Packet prioritization (8 levels)
Dimensions	(LxWxH) (130 x 75 x 35) mm, (5.1 x 3 x 1.4) in.
Weight	380 g (13.4 oz.)
Optional mounting features	Ceiling-mount (ball-head type for aiming); Wall mount
Optical transmitter	LED (red, green, blue)
Transmit angle	(FWHM) 8 degree
Receive angle	(FWHM) 17 degrees
Device powering options	1. Via IEEE 802.3af PoE Class-0 2. via USB 3.1 Type C Gen. 1 3. External power via $\mu$ USB-port 5V
Network connections	100/1000 BASE-TX RJ45 Ethernet LAN interface or USB 3.1 Type C Gen. 1
Regulatory compliance	FCC CFR 47 Part 15B CE Mark