MIELA®

Mobile Internet Extranet LiFi Access

The sobriety of radio waves in motion

PoE-Tic develops and integrates alternative wireless network infrastructures that limit cabling work and guarantee sobriety or even total suppression of radio waves.

A world leader in lighting, Signify has designed the Trulifi offer that allows high-speed data transmission over LiFi, with a bandwidth of around 150 Mbps.

trulifi by signify

PoE-Tic and **Signify** have combined their know-how to meet connectivity and mobility needs in environments that need to be free of radio frequencies.

This is how MIELA was born: innovative LiFi equipment that combines Mobility, Sobriety and Scalability.

Mobility

Easily move your wireless LiFi Access Point, depending on your connectivity needs.

Sobriety

Communicate in non-visible light (Infra-Red), without any exposure to electromagnetic fields, in reference to the «Abeille» Law of February 9th, 2015 (see overleaf).

Scalability

Evaluate the advantages of LiFi in mobile version, before opting for connected LED lighting, with low energy consumption that will cover all buildings.

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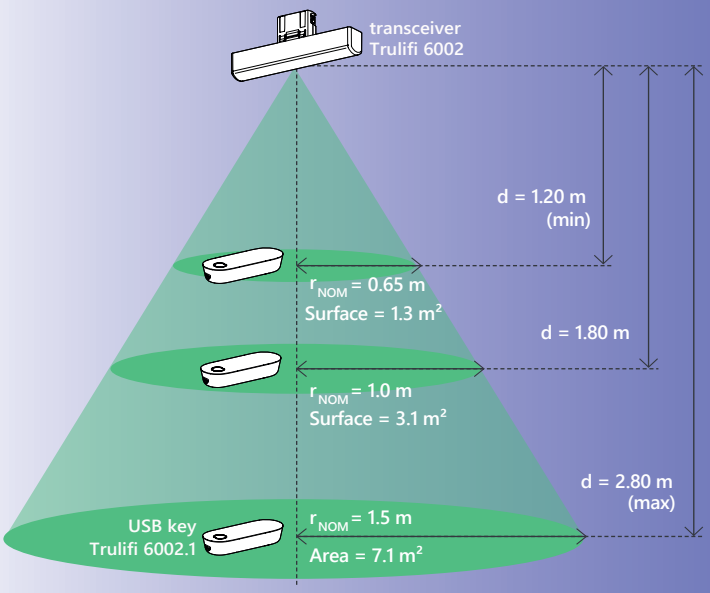
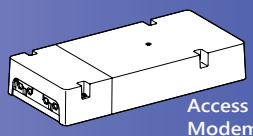
The MIELA concept





Access Point Trulifi
Modem Office 6002.1

TECHNICAL SPECIFICATIONS

Trulifi configuration (starter kit): one Access Point, three transceivers and one USB key.

Number of connections per MIELA: a maximum of 16 Trulifi 6002 USB keys can be managed by an Access Point.

Electrical protection: chassis electrical outlet with switch + circuit breaker 16 A.

Connection to the LAN: RJ45 F/F chassis socket.

Height (mini / maxi): 1.40 / 2.50 m.

Dimensions of the mobile base: 55 x 55 cm

Four Ø 95 mm wheels, two of which are fitted with a brake.

Total weight: 24 kg.

Powerline configuration (optional): G.hn DINRail module.

An Access Point is embedded inside the MIELA.

Three transceivers are placed at the top of the device and communicate with the USB key connected to each workstation.

The Access Point is interconnected to the Local Area Network with the use of classical RJ45 plugs or an optional integrated PLC plug.

MIELA is height adjustable from 1.40 to 2.50 m to be moved easily from one room to another.

The figure on the left shows the coverage area of each transceiver according to its distance from the USB key.

Once fully deployed, the MIELA covers an area of about twenty squared meters in which a maximum of sixteen users can benefit and share a high-speed LiFi connection.

An optimal 150/140 Mbps bandwidth is delivered when the MIELA is set at 1.80 from the ground and the standard workplace is at 60 cm from it.

Main places of use

More and more people express concerns they have about electromagnetic radiation to their elected representatives and ask them to adopt policies to make wireless technology safer.

For example, France passed a law in 2015 that prohibits the use of WiFi in places like nurseries that receive children under three years old.

The growing use of digital tablets in *schools* requires efficient wireless infrastructures. LiFi specifically answers to this with the major advantage of eliminating any exposure of pupils and teachers to radio waves.

Last but not least, the *health sector* is obviously the one that can benefit the most from LiFi, not only in the presence of infants but also near sensitive equipment such as MRIs where WiFi is prohibited.

Main advantages

A permanent LiFi infrastructure requires cabling and LiFi equipment roll out in all offices, meeting rooms or classrooms ceilings. Thanks to its mobility, the MIELA enables a wireless connection closer to the users, without the need for these costly and tideous preliminary works.

In addition, a "PLC G.hn ready" version of the MIELA makes it possible to quickly deploy a LiFi infrastructure without any cabling works. What's more, PLC offers the advantage of combining fixed and mobile LiFi installations in the absence of LAN access in the ceilings.

So, whether for financial, health or simply precautionary reasons, the MIELA is definitely a major opportunity to adopt LiFi technology *right now*.

MIELA_en_v2.1 | 08/23/2022

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