



Wireless Power for Commercial LED Lighting

Imagine a store that doesn't need power lines to light up their shelves and interior lighting.

LUXX Light Technology

But first...

Commercial LED Lighting Industry Numbers



The Global LED Lighting Market was valued at USD 26.09 Billion in 2016.

It is forecasted to grow with a healthy CAGR of 13% from 2017 to 2022.

By 2022 the market will be valued at an estimated 54.28 Billion.



Why LEDs?

Superior efficiency, high brightness levels, reliability, and longer life span will drive LED demand over conventional lighting technologies.

An aggressive decline in the prices of Light-Emitting Diode (LED), coupled with the transformation in energy policies across the world, has been driving the market growth.

Moreover, attractive incentives and rebates provided by the governments for the use of LED lighting in several countries will leverage and increase demand.

With such growth comes opportunity.



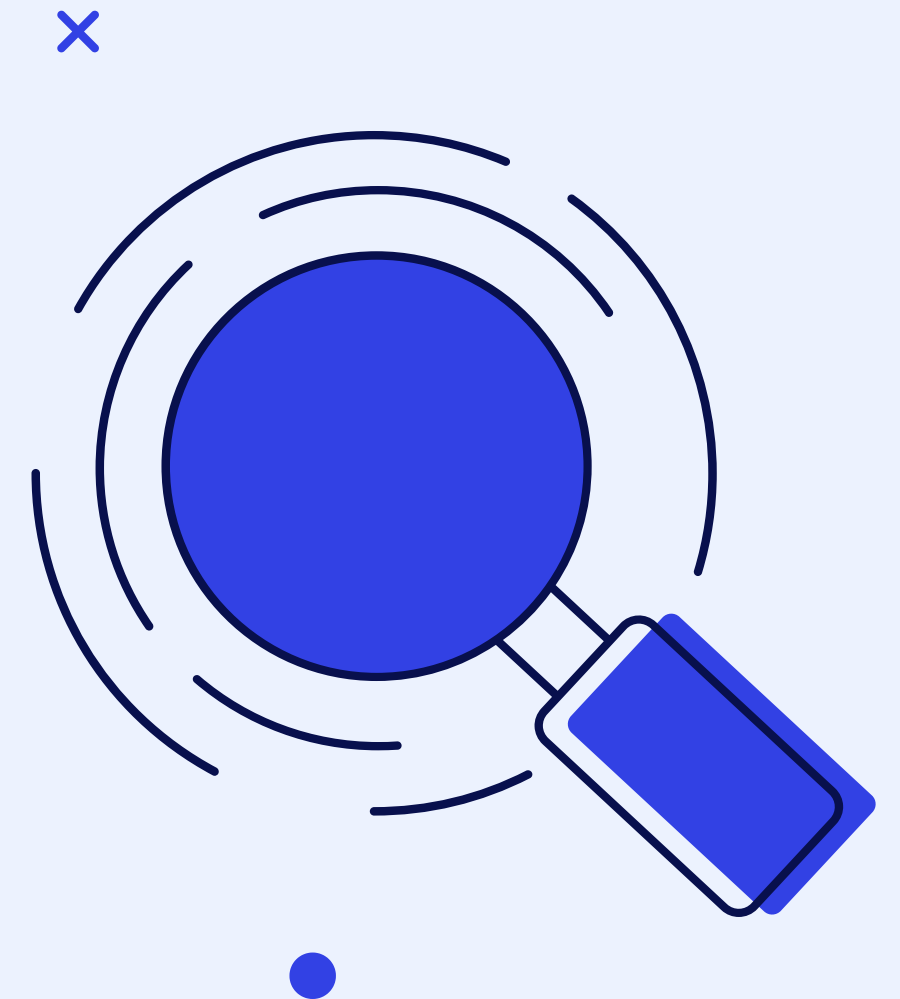
Problem

→ 01

All commercial and retail environments require power to light up their shelves and interior. Running power cables require electricians and make it difficult for stores to rearrange store layouts due to where the sources of power are located.

→ 02

Routing wires on the retail floor can create a safety hazard, and dropping them from the ceiling can be ugly, expensive, or both.



Solution

Worlds first long-range, high-efficiency wireless powering solution for commercial LED lighting applications



01

All that is needed is a sender, receiver, and antennas.



02

Power is wirelessly transmitted across a 10' radius.



03

High-level 'self costs' of hardware is under \$20 USD.





How does it work?

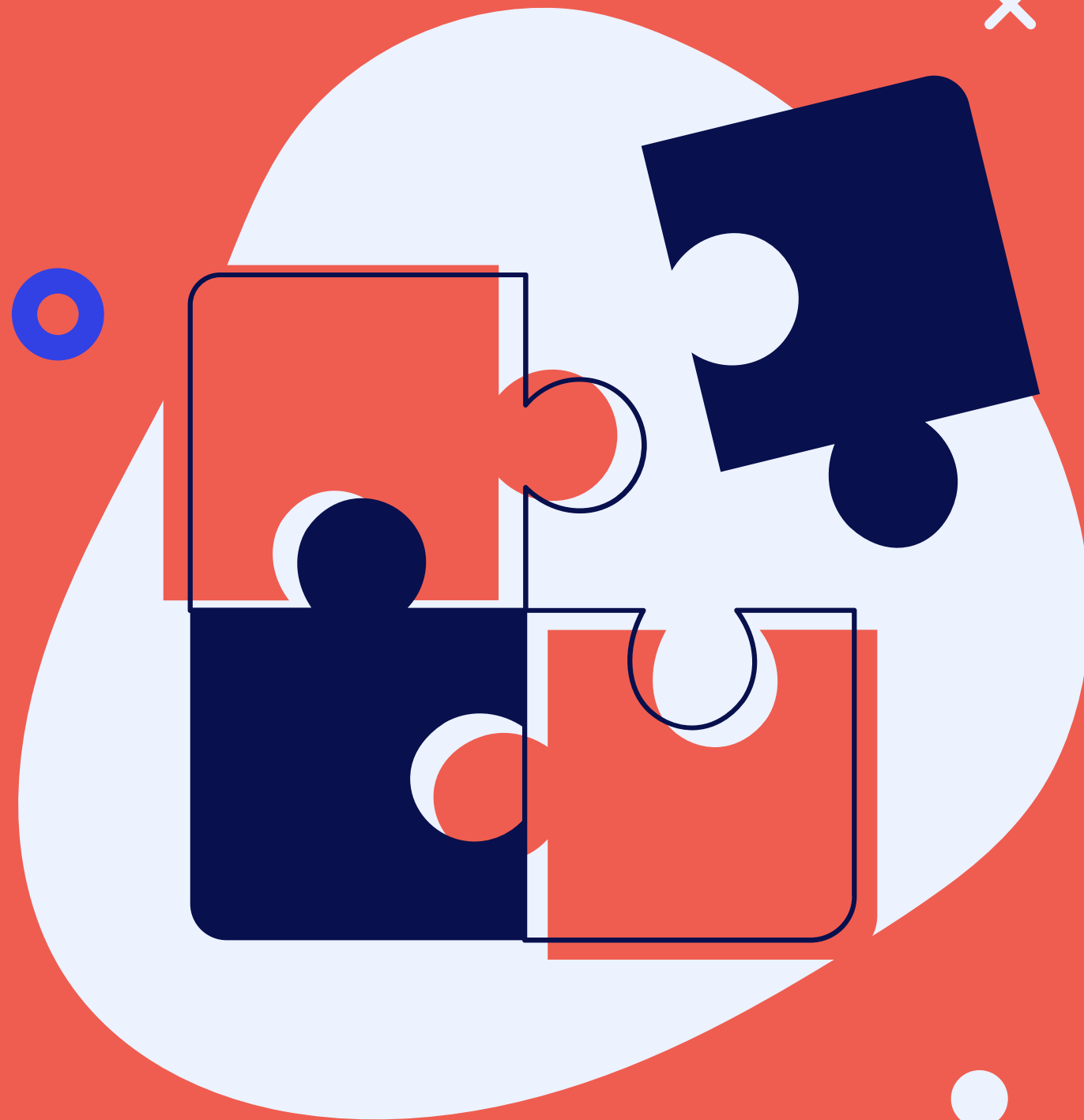
The solution consists of two simple components:

Sending Antenna

A dipole antenna that transmits the power in a 10 ft radius in all directions. Max. 50W per sender, cascadable (daisy-chainable). The size of the antenna + electronics + housing is about a picture postcard footprint, 2" high. The sender will need a 50W power supply with an output voltage of 48V DC.

Receiving Antenna

A linear antenna with max 50W power consumption per receiver, not cascadable (daisy-chainable). The size of the antenna + electronics is about a pencil. The receiving electronics can provide up to 50W in 5V DC or 12V DC or 24V DC (or any other DC voltage, but one voltage per electronic, not combinable, or universal type).



Long Range Scalability

The wireless powering technology is easily scalable. With only one transmitter you can power:

- 1 electronic device of 70 watts at the distance of 25 centimeters. Up to 4 electronic devices of 17,6 watts at the distance of 50 centimeters
- Up to 16 electronic devices of 4,4 watts at the distance of 1 meters
- Up to 64 electronic devices of 1,1 watts at the distance of 2 meters
- Up to 256 electronic devices of 0,275 watts at the distance of 4 meters



Additional Benefits

Being able to power up an entire store's lighting wirelessly opens the door to flexibility and efficiency:

- Retail shelves and gondolas can be easily moved and optimized without the need to run new power cables
- Highly effective LED shelf, display, freezer, bathroom, and kitchen lighting can be easily installed and moved
- Energy-saving power sensors can be installed to turn off the lights when shoppers are not in the proximity of the shelf
- LED lit-up end-caps can be used to attract shoppers, drive sales, and introduce new products



About LUXX Light Technology

Since 1996, LUXX Light Technology has been a global leader in the custom engineering and manufacturing of LED lighting solutions for the Retail Display market, Commercial Refrigeration, Shelf Lighting, and unique Profile extrusions.

In 2019 LUXX introduced the worlds thinnest LED neon rope series, the worlds first IP54 power track, and most recently released a new eShelf video display.



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Let's talk more!



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