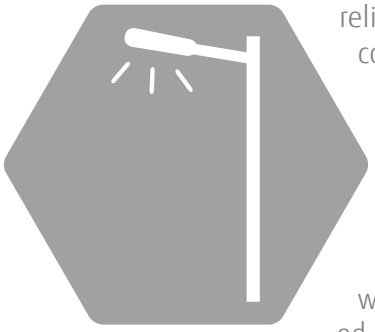
FUJITSU Wireless Solutions

Lighting Connectivity

Replacing traditional fluorescent, halogen and incandescent lamps with LEDs has already brought massive benefits in energy-savings and lifetime cost, whether for indoor or outdoor applications. Organising lighting modules as 'things' on the Internet will offer further advantages.

Whether for street lights or illumination in premises, Smart Lighting adds intelligence, feedback and control to traditional installations. The results?

- Better energy savings - smart, connected lighting provides additional energy savings of up to 35%, bringing the total energy savings up to 80%
- Lower maintenance burden – smart lamps can tell managers when, and only when, they need replacing
- Responsive functionality - connected outdoor lighting provides a platform on which to mount sensors and actuators which can provide additional value



Challenges

The benefits of Smart Lighting can only be achieved through SCALE. Millions of lighting devices need to be connected to the IoT. This presents its own challenges: cost and cost-of-ownership, for one. A further challenge is reliability. IoT devices need to connect reliably in frequently changing radio environments. Energy consumption is a major concern and latency is important where lighting needs to be responsive.

FUJITSU's IoT Connectivity Solutions

A de-centralized wireless communication protocol allows IoT lighting devices to make all decisions locally and co-operatively. This enables the most reliable, optimized, scalable and simple to use connectivity for devices. Adding over-the-air (OTA) update capability extends lifetime for hardware, additionally improving security and lowering total cost of ownership.

Implementing Smart Lighting systems provides energy and maintenance savings while increasing the quality of light provided to users. Smart Lighting infrastructure can further extend lighting networks by adding applications such as environmental sensing, advertising and indoor positioning.

"In the constantly evolving and growing IoT market, customers are looking for upgradable solutions instead of just hardware. This is exactly what we are bringing into to the market, together with Wirepas. For Own Equipment Manufacturers, we offer our wide range of wireless modules with Wirepas Connectivity embedded"

Dennis van Doorn
Marketing Manager Wireless Solutions
Fujitsu Components Europe B.V.

Applications

Fujitsu Components IoT Connectivity Solutions based on Wirepas Connectivity is developed for professional IoT applications, no matter the scale. Applications include Sensors, Asset Management, Smart Metering and Lighting, all of which have very diverse requirements on range, throughput, latency and energy consumption. The solution provides flexibility, fit-for-purpose and, if needed, customization on all these parameters and the hardware too.

Sensors

For a reliable connection with real-time visibility in a highly scalable network. Control and optimize environmental conditions intelligently.

Asset Management

For tracking the locations of various assets. Roll cages, boxes and crates in distributions centers, beds and instruments in hospitals and other valuable corporate assets.

Smart Metering

For connecting an unlimited number of metering points together in a highly scalable network.

Lighting

For intelligent lighting of Smart City or Smart Buildings enabled with Fujitsu's IoT Connectivity Solutions.

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