FRE-220M-IL*

inteliLIGHT® LoRaWAN™ compatible luminaire controller embedded module





Lompatible

Unprecedented intelligence for any street lighting fixture, right from the production line. Designed to minimize occupied space, the new inteliLIGHT® LoRaWAN™ compatible FRE-220-M long range RF controller can be embedded into most luminaire designs, allowing any producer to offer LoRaWAN ™ ready smart lighting fixtures.

smart upgrade for luminaire manufacturers

detailed lamp & grid monitoring

remote individual ON/OFF and dimming

astrological calendar for autonomous operation

MTBF, average lifetime:

capsulated metalcase

25 mm 45 mm

digital input for sensors and smart applications insulated SMA antenna installation

small dimensions 105 x45 x26 mm

*Product subjected to development according to published LoRaWAN regional specification

2017 v1.1

system architecture

inteliLIGHT® is a street lighting **remote control management** system that offers detailed, individual lamp control of every fixture in any city with LoRaWANTM comatible coverage. Up to 85% energy savings can be achieved through **dimming** and **smart scheduling**. Additionally, **real-time grid monitoring** and **advanced maintenance and optimization tools** can further cut operational costs with up to 42%. LoRaWANTM is a **Low Power Wide Area Network** (LPWAN) specification intended for Internet of Things applications in local, regional, national or global networks.

LoRaWANTM network architecture is typically laid out in a star topology in which gateways are relaying messages between end-devices and a central network server in the back-end. Gateways are connected to the network server via secure IP connections while end-devices use single-hop wireless communication to one or many gateways.



