

Revenue Management System

DESCRIPTION

LoRa Enabled Tarrif Meter is having feature to control meter through ambient light, commands, scheduling etc. With these features this retrofit street light controller makes meter smarter. This controller has LoRa module, through which it makes two-way communication. Gateway will work as a mediator between Tarrif Meter and LoRa network server. This meter has unique MAC address which is unique identifier as well.

Weather Based Automation (Optional)

Weather based automation done by using Lux Sensor (Ambient light Sensor). This sensor measures the lux value in environment and give current output to controller using ADC (Analog to digital Converter) output. The Application of "Weather Based Automation" in "Smart Street Light Controller", if lux value less then threshold value then streetlight automatically turns to ON. The controller also calculates the lux percentage and according to lux percentage dimmer intensity will adjust.

Specification LoRa Device

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|-----------------------|---|
| Frequency range | : 865 to 867 MHZ |
| Modulation | : LoRa® Spread-Spectrum |
| RF output power | : Up to 20 dBm |
| Receiver sensitivity | : -137 dBm (SF 12; SB 125 kHz, CR 4/6) |
| RF data rate | : 0.24 to 5 kbps |
| RF range | : up to 5000 m (line of sight) |
| Operating voltage | : 3 V to 3.7 V, Separate 5V option |
| Current consumption | : < 10 μ A (module in sleep, RTC running) 23 mA (Rx) 123 mA (Tx mode) |
| Operating temperature | : -40°C to +85°C |



Important Notice

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