



Requirements:

1. This module will be mounted on Street Light Pole
2. So the casing should be IP67 with GSM antenna out.
3. It will be used to control Street LED Lights.
4. On reboot ESP will take time from RTC
5. Power Supply should be surge protected
6. The module have feature to store ON/OFF schedules locally. It should work (Switching) when there is no GSM network.
7. The module will send the power Parameters (Current, Input Voltage, Power Consumption of LED and Power Factor) to the server using 2G GSM network.
8. It should send the real-time status of Relay (ON / OFF) to the server.
9. ESP can take the last power Off time from RTC module and send it to the server.
10. There should be option on board to reprogram the ESP.
11. ESP Can be reprogrammed over OTA.

Additional Requirements:

1. There should be an optional mountable module
2. which should have Dimming feature (when the LED lights have Dimmable driver)
3. Dimming will be done from the server.