



Requirements

1. Node will be mounted on Street Light Pole
2. Node casing should be IP67 with GSM antenna out.
3. It should have following modules/components
 1. Power Supply
 2. Controller
 3. Memory
 4. 2G GSM GPRS
 5. RTC Battery
 6. Power Parameters of Streetlight (Input AC voltage, Load Current, Load, PF)
 7. Relay to switch street light
 8. Dimmable LED drive controller
 9. Outdoor GSM Antenna
10. IP67 Casing
11. 1 feet input and 1 feet output cable (200V AC)
12. BARCODE Label (Client will provide)

Primary Functions of the node

1. The primary function of the node is to control **switching** function of street light. It should have pre-configured on/off schedule.
2. Nodes should maintain **time** when there is no network situations and node reboots.
3. It can send status of relay, power parameters, logs, faults, etc. to the server on an interval of configurable frequency
4. It can update default settings sent by server
5. It can store logs when there is no network
6. Node firmware will have unique Node ID (BARCODE ID).
7. The node can control dimmable drivers of LEDs
8. Node can communicate with a mobile app to change the settings and send status for troubleshooting, when there is no network.