



**No More
“Dumb” Lights,
with SENSEnuts**

#Scalable #HumanCentricLighting #SmartCities #IoT
#ConnectedStreetLights #SmartOffices #Secure #SmartLights

Imagine Beyond "Fixed" Illumination

Lights are meant to provide apt illumination for perfect well being & productivity of Human Beings. But Conventional lights are designed to offer preset Illumination without any possibility to change or adapt once installed. User had absolutely no control over quantity and quality of illuminance. With advent of new technologies, there are pertinent questions

What if ▶

Lights interact ?

They are autonomous and also controllable from anywhere ?

They can diagnose and then detect or predict faults ?

They track their power consumption and predict energy demands ?

They can protect themselves from unexpected operating conditions ?

No More Ifs & Buts, SENSEnuts is the answer

With the help of futuristic technologies like IoT & AI, SENSEnuts brings intelligence to these "dumb" Lights and evolve them to next-gen Smart Lights, empowering users to have the power to control & manage the Illumination and its effects: mental, physical and monetary as per need.

Reduce Failure Rates & Downtime

Longer Replacement Cycle

Intelligent Operational Policies

Power Tracking & Energy Savings

Precise Maintenance

Autonomous Operation

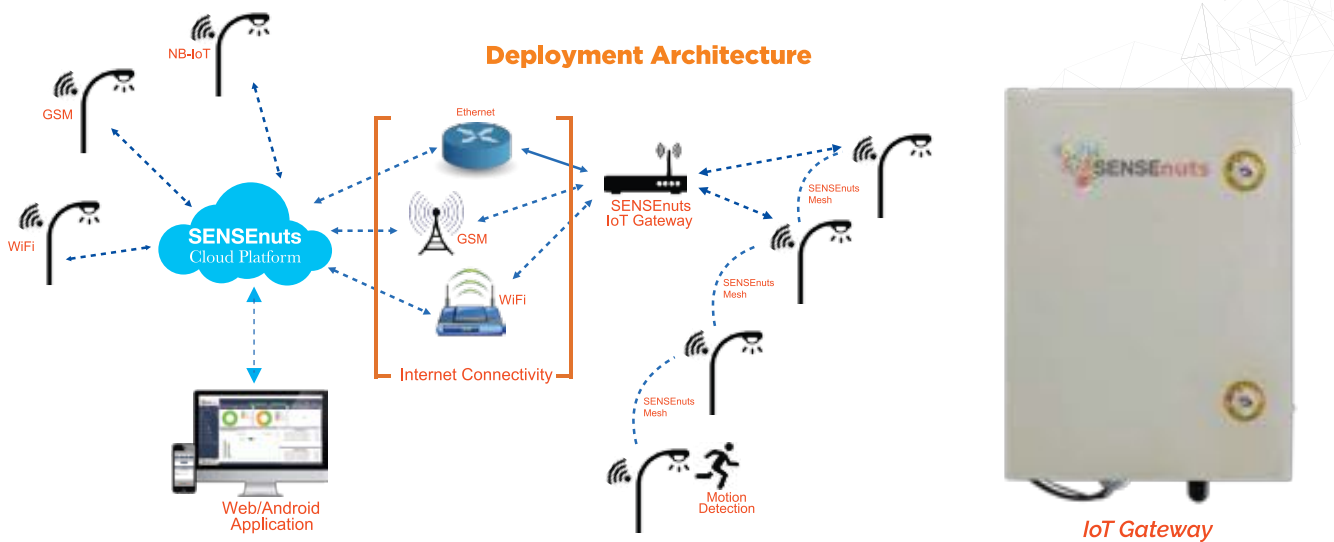
Reduces Light Pollution & Carbon Footprint

Convenient Operation & Maintenance



SENSEnuts Stellar (for connected Street Lights)

Today our cities faces the mega challenge of street light operation and maintenance while incurring huge cost of energy bills which forms a significant part of their constrained budget. Connected street lights addresses these issues in smarter cities by connecting these lights by network and cloud enabling remote control and management. Intelligent software applications can implement smart policies for ON/OFF/Dim operations. Real time fault alerts brings precise maintenance, reducing downtime and removing inefficiencies of manual dependencies. The whole city street lights can be precisely mapped on Google Maps.



Features:

- End To End Platform For Centralised Control And Management
- Energy Efficient, Self Healing & Self Configuring SENSEnuts Mesh Protocol
- Network & Luminaire Health Updated To Platform
- Pre-scheduled Or Instant Switching Operation (On/off/dim)
- Custom Group Formation For Group Control
- Google Maps For Individual Light Mapping
- Secured & Scalable Communication
- Autonomous Operation Using Intelligent Rule Engine
- Frequent Data Updates With Configurable Frequency
- Wider Coverage, Extendable Using Multi Hopping
- Real Time Fault Alerts, Status Reports & Energy Consumption Updates
- Ports For Extra Sensors Connectivity
- Support For Fota And Cota
- Edge Computing On Devices For Local Decision
- Negligible Internet Cost (With SENSEnuts Mesh)
- Local Data Storage In Case Of Network Outage
- Apis For Third Party Software Or Command Centers
- QR Scan Based Installation Assist Mobile App
- Powerful Rule Engine For User Desired Autonomous Operation
- **Connectivity Options: SENSEnuts Mesh, NB-IoT, GSM, WIFI**



Stellar Nema



Stellar Advanced

	FEATURES	Remote Control	Time Schedule & Grouping	Energy Metering	Faults Detection & Alerts	Rule Engine	Luminaire Safety	Digital Sensor Interface	Lux Sensor for Light Levels	Local Data Storage
VARIANTS	Stellar Connect	ON/OFF (Support Non-Dimmable Driver)	YES	NO	3 Alerts	YES	NO	1	NO	1 Month
	Stellar Value	ON/OFF Dim (Support 0-10 A-Dim Driver)	YES	NO	3 Alerts	YES	NO	1	NO	1 Month
	Stellar Advanced	ON/OFF Dim (Support 0-10 A-Dim Driver)	YES	YES	8 Faults & Alerts	YES	Yes, with Rule Configuration	Option of Upto 2	NO	1 Year
	Stellar Nema	ON/OFF Dim (Support 0-10 A-Dim Driver)	YES	YES	8 Faults & Alerts	YES	Yes, with Rule Configuration	Option of Upto 2	YES	1 Year



SENSEnuts Pilot (for Group Control Management System)

GCMS It is an epitome of India's appreciated frugal engineering. It is one of the most cost effective solution for centrally managing street lights across the city, particularly in brown field projects, low wattage street lights and non dimmable lights. It offers basic functionalities like ON/OFF control, auto or user defined timing, power consumption monitoring of group of lights, advance fault alerts via SMS, email.

Features:

- Central Control & Monitoring
- Energy & Power Quality Monitoring
- Configurable Time Schedules (Daily, Occasional & Astro)
- Line Fault Detection And Alerts
- Luminaire Protection & Failure Detection
- Electricity Theft Detection
- Powerful Rule Engine For User Desired Autonomous Operation
- Real Time Alerts By SMS, Email & App Notifications
- Web App & Local Control
- Local & Cloud Storage Options
- Fallback On Manual Mode And Secondary Timer
- On Field Maintenance Mode For Manual Access
- QR Scan Based Installation Assist Mobile App
- Google Map View, Supporting Monitoring And Control Operations
- Support For Fota And Cota
- Secured & Scalable Communication
- **Connectivity Options: Cellular, Ethernet, NB-IoT, WiFi**

Variants

Power Rating: 2 kVA to 75 kVA

Power Supply: Single phase and three phase





SENSEnuts Vertex (for High Mast Lighting)

High Mast Lighting is the "flavor of the season", as it is the most cost effective way of Area Lighting in expansive open spaces. It is preferred options for Open parks, dock yards, Railways yards, warehouses, power plants, parking lots. Due to their height and weight, it could be time taking to troubleshoot in case of any issue. Smart Wireless Controller can help with remote control & central monitoring of their health. State Utilities can track power consumption and life of each of these High Mast Poles on Live dashboard, with detailed information like Burn Hours, Up time, Down Time, Replacement Cycles and many more.

Features:

- Central Control & Monitoring
- Individual Phase Control And Monitoring
- Energy And Power Quality Monitoring
- Configurable Time Schedules (Daily, Occasional & Astro)
- Line Fault Detection And Alerts
- Luminaire Protection And Failure Detection
- Powerful Rule Engine For User Desired Autonomous Operation
- Real Time Alerts By SMS, Email And App Notifications
- Web App And Local Control
- Local & Cloud Storage Options
- Fallback On Manual Mode And Secondary Timer
- On Field Maintenance Mode For Manual Access
- QR Scan Based Installation Assist Mobile App
- Google Map View Supporting Monitoring And Control Operations
- Support For Fota And Cota
- Secured & Scalable Communication
- **Connectivity Options: Cellular/NB-IoT, Ethernet, WiFi**





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