AIN INTEGRATED SOLAR STREET LIGHT

5 Year Warranty

Adjustable LED Module

The angle of LED module is adjustable according to road width with better lighting performance, increasing the lighting utilization and less lighting waste.

LiFePo4 Battery

Grade A+ Battery cell with high uniformity of internal resistance and charging and discharging.

Programmable by Remote

The lighting program can be modified anytime by remote control according to customers' requirement.

High Brightness LED

High brightness led enhances visibility and safety while providing energy-efficient

MPPT Charge Controller

maximizes energy efficiency ensuring longer battery life and consistent illumination without blackout.

Robust Design

Robust design of light fixture provides superior durability, corrosion resistance, and heat dissipation.

Templux Lighting s.r.l, Via Gradenigo 58, PD35100, Italy, info@templuxitaly.com, www.templuxitaly.com

High-Efficiency Solar Panel

with Exceptional Craftsmanship

The solar panel integrates cutting-edge technology with meticulous craftsmanship, delivering high conversion efficiency. Its innovative design ensures maximum energy generation, even under less-than-ideal sunlight conditions, making it a top-tier solution for sustainable lighting needs.

Adjustable LED Module

The angle of LED module is adjustable according to road width with better lighting performance, increasing the lighting utilization and less lighting waste.

Die-Cast Aluminum Housing

The lamp body is constructed from premium die-cast aluminum, blending sleek aesthetics with uncompromising strength. This design not only enhances heat dissipation but also ensures long-term durability, maintaining the product's integrity even in extreme weather conditions.

Adjustable Mounting Bracket

Equipped with a durable and adjustable mounting bracket, it adapts seamlessly to horizontal and vertical pole mounts. This design allows for optimal light collection and custom lighting angles, improving performance and simplifying installation without the need for additional hardware.

Templux Lighting s.r.l, Via Gradenigo 58, PD35100, Italy, info@templuxitaly.com, www.templuxitaly.com

Long-life Lithium Battery

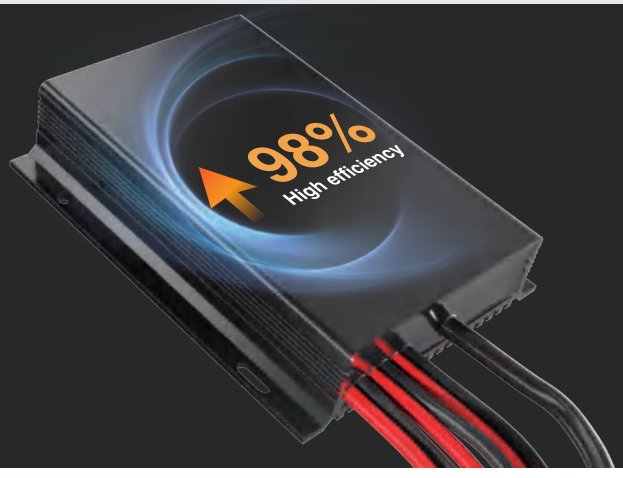
Equipped with high-performance LiFePo4 batteries, it can perform more than 4,000 deep charge and discharge cycles, ensuring reliable operation for up to ten years and significantly reducing maintenance and replacement costs.

Motion Sensor

Solar street lights can be equipped with PIR sensors or microwave sensors. They provide accurate and reliable presence sensing and adaptive brightness control. This intelligent design can maximize energy savings, improve safety, and ensure sensitive lighting based on real-time conditions.

Anti-Corrosion Powder Coating(Optional)

Features a premium anti-corrosion powder coating for superior protection against rust, UV rays and environmental wear.



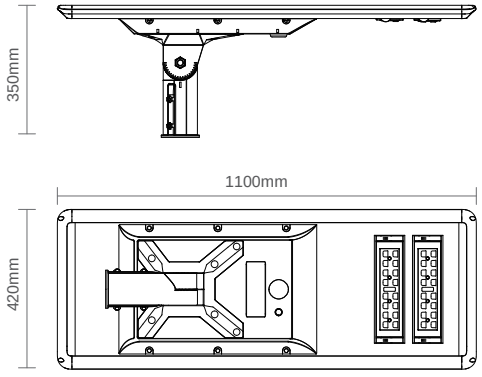
MPPT Charge Controller

maximizes energy efficiency ensuring longer battery life and consistent illumination without blackout.

Templux Lighting s.r.l, Via Gradenigo 58, PD35100, Italy, info@templuxitaly.com, www.templuxitaly.com

MAIN PARAMETERS

Dimension



AIN I 60W IP 66 IP 65

Light Head

Luminous flux	10,200lm
Peak LED power	60W
CRI	>70
CCT range (dual color)	2200K~6000K
LED lifetime	>100,000 hours
Light dimension	1100*420*350mm
Pole Diameter	76mm

MPPT Controller

System voltage	12V
Max load power	80W
Motion Sensor	PIR / Microwave Optional
Programmable	√
MPPT tracking efficiency	98%
Operating temperature	-35 °C ~ 65 °C
IP rate	IP68

Solar Panel

Peak Power	82W
Max. voltage	18V
Solar cells efficiency	22.3%
Technology	Monocrystalline silicon panel
Operating Temperature	-40 °C ~ 85 °C
Lifetime	>20 years

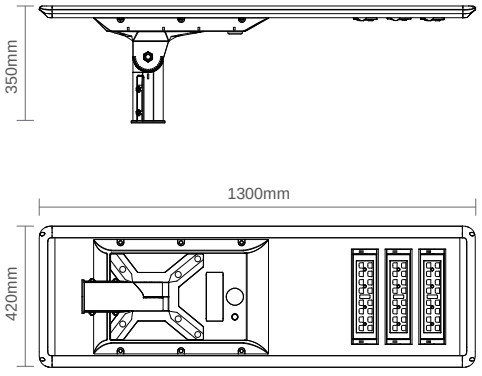
LiFePO4 Battery

Battery type	LifePO4 6000mA 3.2V 32700
Battery capacity	12.8V 460WH
Battery lifetime	4000 cycles @ D.O.D 50%
Charge mode	C.C + C.V
Storage Temperature	+5 °C ~ +35 °C
Operating Temperature	-10°C~65°C

Templux Lighting s.r.l, Via Gradenigo 58, PD35100, Italy, info@templuxitaly.com, www.templuxitaly.com

MAIN PARAMETERS

Dimension



AIN I 80W IP 66 IP 65

Light Head

Luminous flux	13,600lm
Peak LED power	80W
CRI	>70
CCT range (dual color)	2200K~6000K
LED lifetime	>100,000 hours
Light dimension	1300*420*350mm
Pole Diameter	76mm

MPPT Controller

System voltage	12V
Max load power	100W
Motion Sensor	PIR / Microwave Optional
Programmable	√
MPPT tracking efficiency	98%
Operating temperature	-35 °C ~ 65 °C
IP rate	IP68

Solar Panel

Peak Power	103W
Max. voltage	18V
Solar cells efficiency	22.3%
Technology	Monocrystalline silicon panel
Operating Temperature	-40 °C ~ 85 °C
Lifetime	>20 years

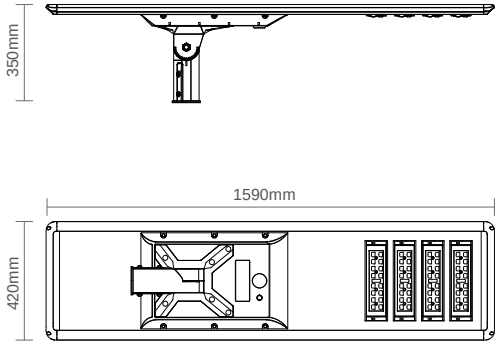
LiFePO4 Battery

Battery type	LifePO4 6000mA 3.2V 32700
Battery capacity	12.8V 614WH
Battery lifetime	4000 cycles @ D.O.D 50%
Charge mode	C.C + C.V
Storage Temperature	+5 °C ~ +35 °C
Operating Temperature	-10°C~65°C

Templux Lighting s.r.l, Via Gradenigo 58, PD35100, Italy, info@templuxitaly.com, www.templuxitaly.com

MAIN PARAMETERS

Dimension



AIN I 100W IP 66 IP 65

Light Head

Luminous flux	17,000lm
Peak LED power	100W
CRI	>70
CCT range (dual color)	2200K~6000K
LED lifetime	>100,000 hours
Light dimension	1590*420*350mm
Pole Diameter	76mm

MPPT Controller

System voltage	24V
Max load power	120W
Motion Sensor	PIR / Microwave Optional
Programmable	√
MPPT tracking efficiency	98%
Operating temperature	-35 °C ~ 65 °C
IP rate	IP68

Solar Panel

Peak Power	125W
Max. voltage	36V
Solar cells efficiency	22.3%
Technology	Monocrystalline silicon panel
Operating Temperature	-40 °C ~ 85 °C
Lifetime	>20 years

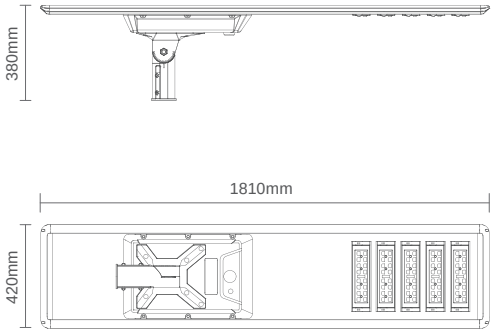
LiFePO4 Battery

Battery type	LifePO4 6000mA 3.2V 32700
Battery capacity	25.6V 768Ah
Battery lifetime	4000 cycles @ D.O.D 50%
Charge mode	C.C + C.V
Storage Temperature	+5 °C ~ +35 °C
Operating Temperature	-10°C~65°C

Templux Lighting s.r.l, Via Gradenigo 58, PD35100, Italy, info@templuxitaly.com, www.templuxitaly.com

MAIN PARAMETERS

Dimension



AIN I 120W IP 66 IP 65

Light Head

Luminous flux	20,400lm
Peak LED power	120W
CRI	>70
CCT range (dual color)	2200K~6000K
LED lifetime	>100,000 hours
Light dimension	1360*520*380mm
Pole Diameter	76mm

MPPT Controller

System voltage	24V
Max load power	160W
Motion Sensor	PIR / Microwave Optional
Programmable	√
MPPT tracking efficiency	98%
Operating temperature	-35 °C ~ 65 °C
IP rate	IP68

Solar Panel

Peak Power	135W
Max. voltage	36V
Solar cells efficiency	22.3%
Technology	Monocrystalline silicon panel
Operating Temperature	-40 °C ~ 85 °C
Lifetime	>20 years

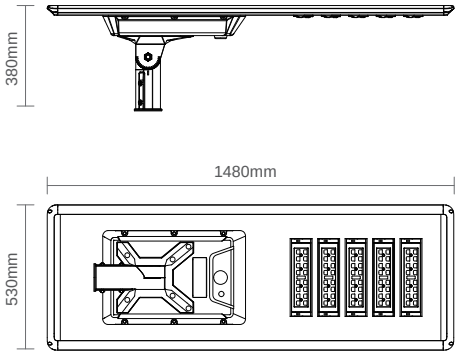
LiFePO4 Battery

Battery type	LifePO4 6000mA 3.2V 32700
Battery capacity	25.6V 921WH
Battery lifetime	4000 cycles @ D.O.D 50%
Charge mode	C.C + C.V
Storage Temperature	+5 °C ~ +35 °C
Operating Temperature	-10°C~65°C

Templux Lighting s.r.l, Via Gradenigo 58, PD35100, Italy, info@templuxitaly.com, www.templuxitaly.com

MAIN PARAMETERS

Dimension



AIN I 140W

IP 66 | IP 65

Light Head

Luminous flux	23,800lm
Peak LED power	140W
CRI	>70
CCT range (dual color)	2200K~6000K
LED lifetime	>100,000 hours
Light dimension	1480*530*380mm
Pole Diameter	76mm

MPPT Controller

System voltage	24V
Max load power	160W
Motion Sensor	PIR / Microwave Optional
Programmable	√
MPPT tracking efficiency	98%
Operating temperature	-35 °C ~ 65 °C
IP rate	IP68

Solar Panel

Peak Power	158W
Max. voltage	36V
Solar cells efficiency	22.3%
Technology	Monocrystalline silicon panel
Operating Temperature	-40 °C ~ 85 °C
Lifetime	>20 years

LiFePO4 Battery

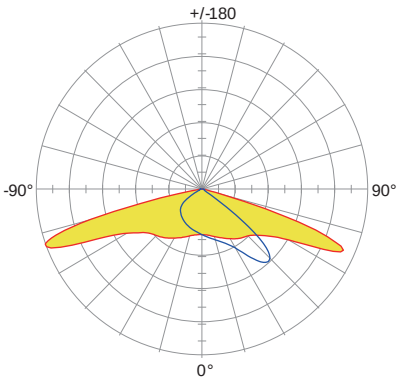
Battery type	LifePO4 6000mA 3.2V 32700
Battery capacity	25.6V 1075WH
Battery lifetime	4000 cycles @ D.O.D 50%
Charge mode	C.C + C.V
Storage Temperature	+5 °C ~ +35 °C
Operating Temperature	-10°C~65°C

Ultra Slim LED Optic

Optics is a very important component of the whole solar street luminaire while it is always neglected. LEDil optic is adopted for all models of auroras's solar street light. The suitable optic will be determined according to the project conditions which are related to the road width, the steel pole height, and distance between poles, etc

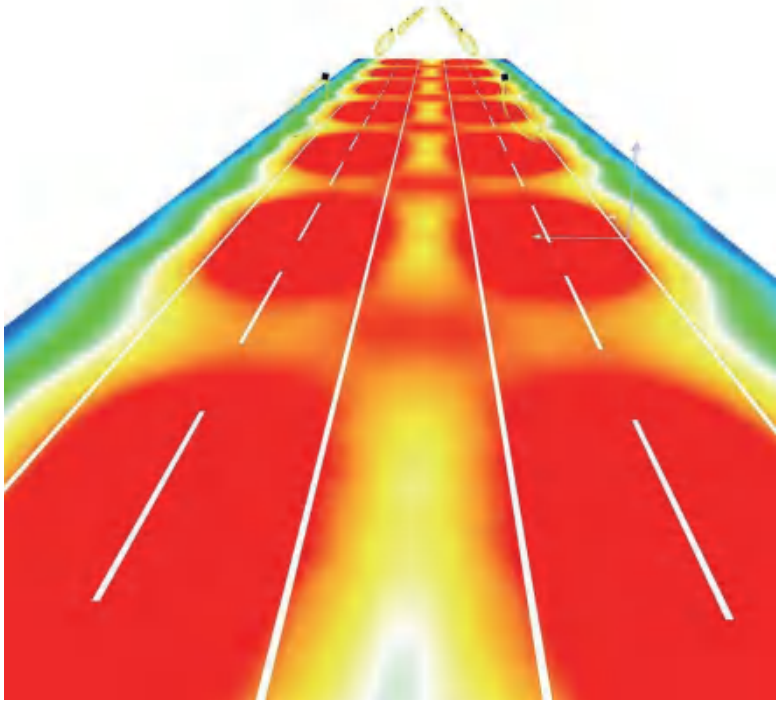
AIN is equipped with specially designed LED optics which is to illuminate the main road without wasting light out of road. It use a very narrow but very long lighting distribution pattern which ensures there is no black dot between the poles. With high brightness output and super narrow lighting distribution, it deliver a very smooth and uniform performance on the road, meanwell with the help of longer lighting distance, there will be less quantity of poles which reduce the project cost a lot.

Light Distribution Curve



Luminaire

C0/C180: C90/C270:



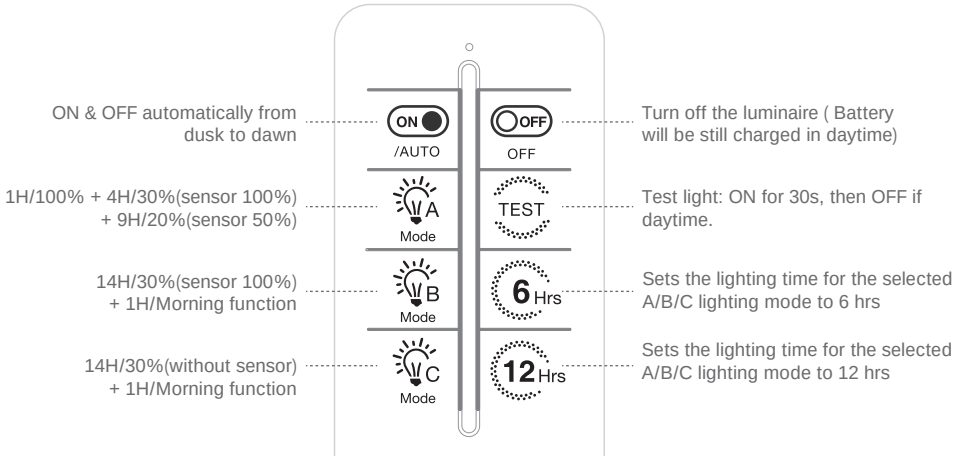
Installation Method

Working Mode

In addition to automatic switching on and off , you have the possibility of setting different lighting program easily by the simple remote control according to the needs of the project. Also you can set the light to work for 6 hours or 12 hours.

Mode A	1H 100% full power	4H/30%(sensor 100%)	9H/20%(sensor 50%)
Mode B	14H/30%(sensor 100%) + 1H/Morning function		
Mode C	14H/30%(without sensor) + 1H/Morning function		

Remote Control



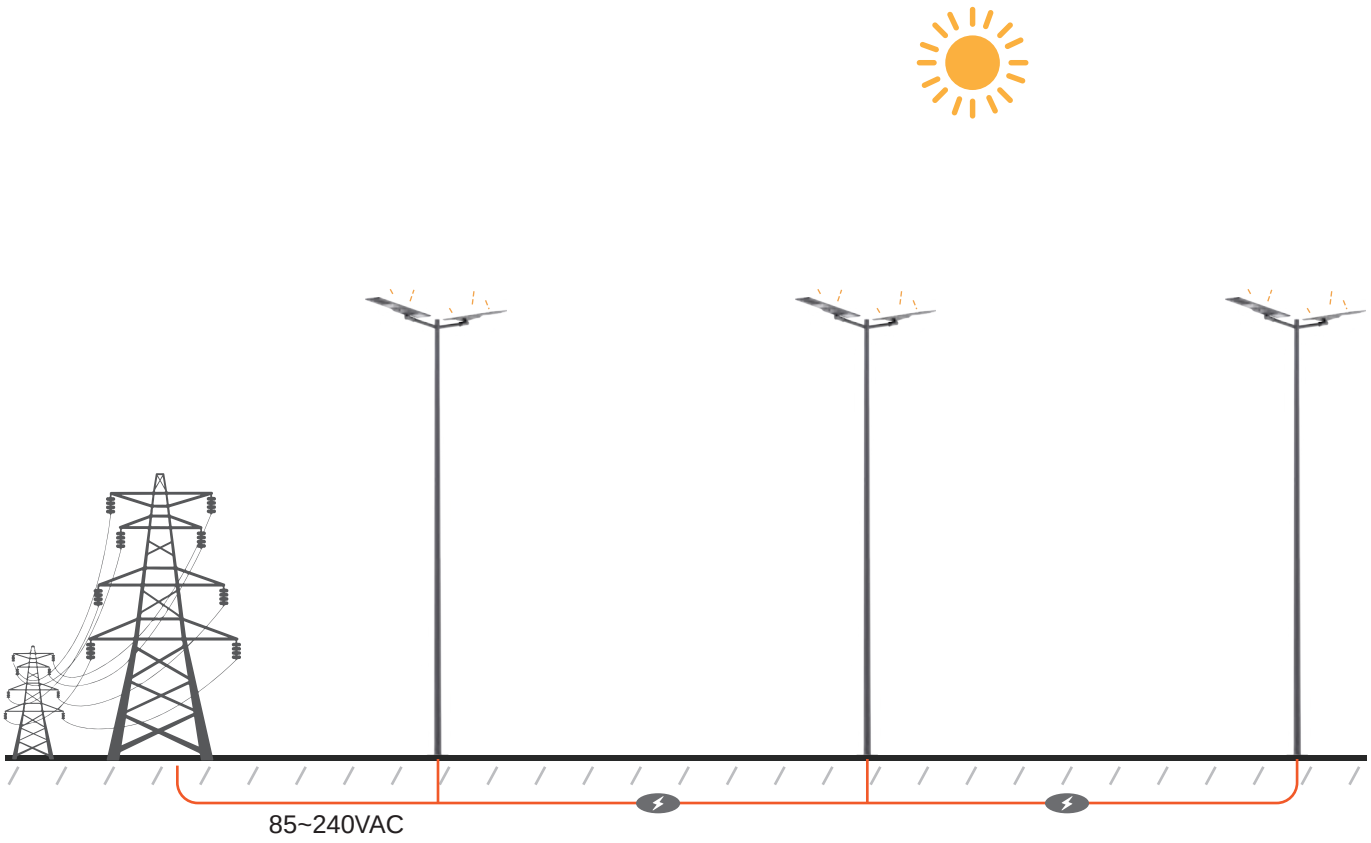
Note :

1. Turn on switch button in the solar light before use.
2. Default lighting mode: A.
3. Modes A/B/C programs could be changed prior to notice, pls be subject to the sticker at backside of remote.
4. Press OFF to turn off light (Charging will be still functional), Press ON restores last setted mode.
5. 6Hrs/12Hrs : Set duration for current mode (A/B/C). Press mode button (A/B/C) again to reset to default time.

Hybrid System with 220V Grid Supply (Optional)

The solar street light with AC85~240VAC as backup power supply as backup is designed to ensure the solar lights more smarter and more reliable in very chanllenge conditions especially the area where the solar radition is not sufficienct during some months or in case of sudden bad weather for a few days.

The control system will automatically switch to AC power supply when the battery voltgae is dropping a a lot and no power in the battery. And it will switch battery power once the voltage of battery is recovered to full capacity. With hybrid system solution, it ensure the non-stop & reliable lighting service without worrying blackout at all during the whole year.



FEATURES

High reliability

Dual power supply guarantee, no risk of lighting interruption.

Energy saving

Give priority to the use of clean energy to reduce carbon emissions.

More economical

Reduce power consumption and low long-term use cost.

Flexible installation

Suitable for areas where solar energy resources are unstable or require high brightness.

IoT Smart Control Solutions (Optional)

Our solar street lights can be seamlessly integrated with advanced IoT communication modules, allowing each street light to automatically report key data such as operating status, battery health and solar power generation, while supporting remote switching, adaptive dimming and instant fault diagnosis.

Single light control

Wireless Network

Malfunction management

Energy consumption analysis

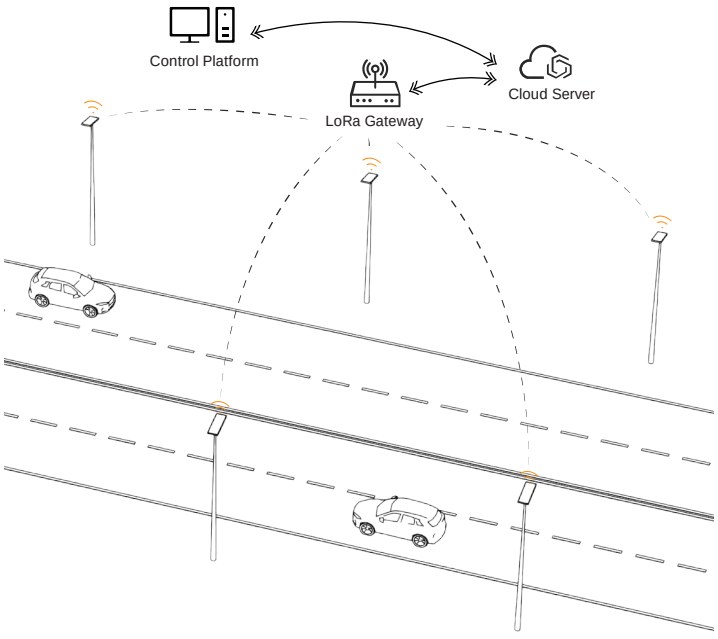
Intelligent monitoring

LoRaWAN®

SMART CONTROL SOLUTION

Advantages

Ultra-low power consumption, ultra-long distance

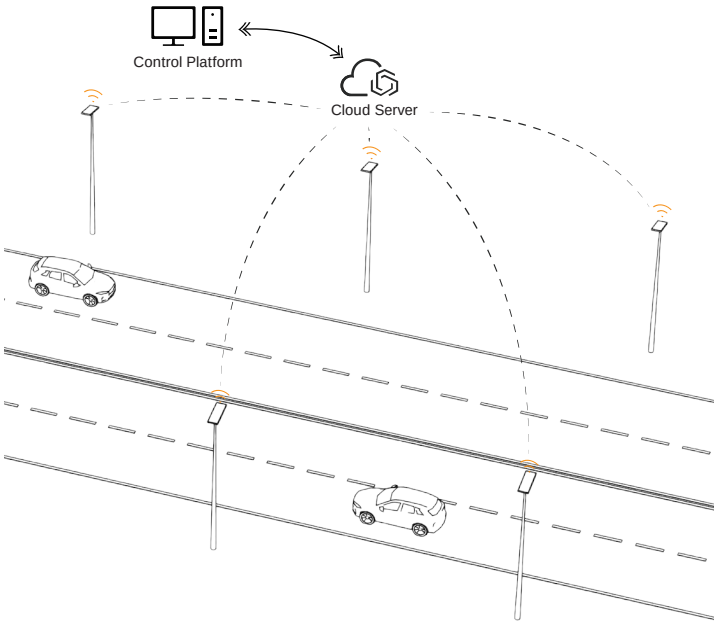


4G Communication Network

SMART CONTROL SOLUTION

Advantages

Fast speed, no gateway required, Ultra long distance, High connection stability



Templux Lighting s.r.l, Via Gradenigo 58, PD35100, Italy, info@templuxitaly.com, www.templuxitaly.com