

PL Multipoint

Gateway

LODESTAR+ Option



PROJECT

LOCATION

DESCRIPTION

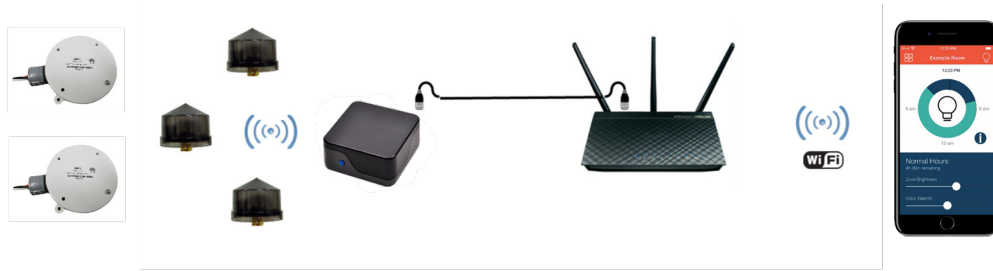
LODESTAR+ is a simple, scalable, reliable and secure wireless outdoor lighting control solution for small to medium projects. The Gateway is the intelligent control hub, processing data and programmed schedules while also enabling user control via the LODESTAR+ Mobile App.

The Gateway comes with software pre-installed, and upon startup, it will download applicable software updates over the Internet and install the latest version. If there is uninterrupted Internet connectivity over time, the Gateway will always maintain the most current software version through automatic updates.

FEATURES

- Main network control device in the LODESTAR+ wireless control system which communicates with the LODESTAR+ wireless controllers
- Utilizes 2.4 GHz ZigBee wireless communication, a standards-based protocol over wireless mesh network topology
- Facilitates remote connectivity and communication when connected to facility LAN/WAN
- Easily configured through the LODESTAR+ Mobile App, typically pre-commissioned at the factory
- Enables scalability for small and medium-sized commercial projects:
 - Up to six (6) Gateways can be managed via one mobile app account
 - Up to 120 Lighting Controllers can be added and managed per LODESTAR+ Gateway
 - Up to 30 lighting zones can be created
- Employs a sophisticated, lean-embedded hardware design for low latency control responsiveness
- Updates software automatically, manages over-the-air software updates to connected devices

BASIC NETWORK CONFIGURATION

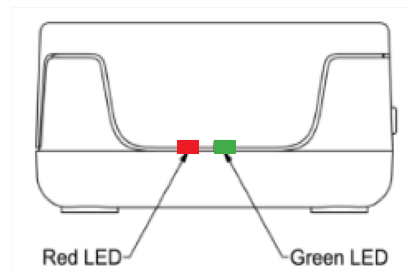


TECHNICAL DATA

Voltage / Power Adapter	5V (plugs into standard outlet that supports 100-240 VAC , 50/60 Hz)
Operating Temperature	32° to 140 °F
Firmware Upgrades	Received via LAN/WAN or wireless router connection to the Internet
Certifications	Certified per FCC Part 15 rules, Industry Canada license-exempt RSS Standards

LED INDICATOR FUNCTION

The following table describes the green and red LED indicators on the Gateway.



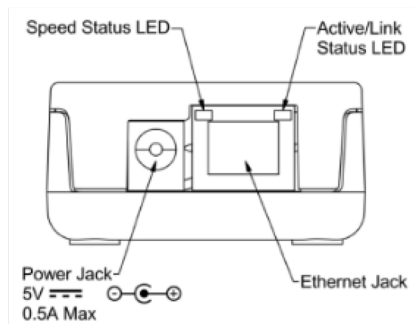
LED State	Meaning
Green (Solid)	The Gateway is operating normally.
Green (Blinking)	The Gateway is going through one of a couple normal conditions that will last for a brief period. This includes: 2 Blinks - Joining is enabled (to allow new lighting controllers or other devices to connect). 4 Blinks - The Gateway is updating its software.
Red (Blinking)	2 Blinks - The Gateway does not have an IP address. 3 Blinks - The Gateway received an IP address but can't connect to the internet. 4 Blinks - The Gateway can connect to the internet but is unable contact the cloud server.
Green or Red (Solid)	The Gateway is installing a new software image and will reset shortly. DO NOT UNPLUG.

WIRELESS NETWORK REQUIREMENTS GATEWAY PLACEMENT GUIDELINES

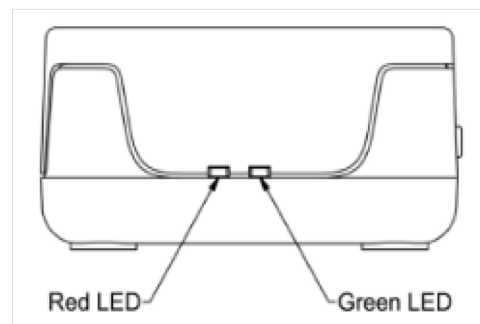
- Must be installed indoors only. The Gateway is not rated for outdoor use.
- For maximum transmission range, install against a window facing out towards the parking lot or area lights being controlled. Installation in other locations may result in reduced transmission range, depending on the building materials.
- Must be installed within range of one lighting controller. For optimal performance, install within range of two or more lighting controllers.
- Recommended distance between the Gateway and the nearest lighting controller is 300 feet or less, line-of-sight.
- The Gateway connects to the Internet via Ethernet, install in a location in which an Ethernet jack is accessible.
- Install in a location in which a 120VAC outlet is accessible.

NOTE

Installing the Gateway in an enclosed area or cabinet can significantly degrade performance.
IT SHOULD NEVER BE INSTALLED INSIDE A METAL ENCLOSURE.



REAR VIEW



FRONT VIEW

ORDERING INFORMATION

Product	Description
TLC-G	LODESTAR+ Wireless Gateway