LightGrid Wireless Control System
Mesh Gateway

Outdoor Lighting Control System Designed for Street and Roadway Applications. It enables remote monitoring, control, and asset management of a single fixture or a group of fixtures through a web enabled Central Management System.

- Optimized Energy Usage: On/Off & Dimming
- Query by Location: Available Every 15 Minutes
- Reduce and Streamline Repair Calls: Day Burner/Dark Night Alerts
- Accurate Energy Usage Measurement: +/- 0.5% Accuracy

System Architecture

Nodes reside on top of each light fixture on a standard ANSI socket and operate in a mesh network, communicating to each other as well as the gateway. The Gateway connects nodes to the Central Management System through a standard TCP-IP interface.

Why Mesh?

Mesh systems provide a cost-effective lighting controls solution in urban environments that typically have dense pole locations, because each gateway can support hundreds of nodes.

Product Features

- Communication hub for self-forming & self-restoring node mesh network to central command
- Built-in Cell Modem
- Integrated GPS for Automatic Gateway Registration and Location Display in Control Software
- Enhanced Surge Protection 10kV/5kA per ANSI C136.2-2015
- Real-time update of the status of all the fixtures
- Static IPv6 Addressing and Routing
- Industry Standard Secure Encrypted Communications
Product Specifications

Node Specifications:
- Input Voltage: 120-480V
- Operating Temp: -40° to +50°C
- Surge Protection: 10kV/5kA Standard, per ANSI C136.2-2015
- Power Consumption: typical 4W
- GPS Accuracy: +/- 3m in clear open sky
- Addressing: IPv6 protocol
- Security: AES Encryption and Certificate Based Authentication

Housing & Construction:
- Ingress Protection: Class IP65
- Weight: 7 lbs
- Warranty: 5 Years Standard, 10 Year Extended

Network, Compliance & Security:
- Radio Frequency: 915 MHz ISM Band, FCC CFR 47 15.247 Intentional Radiators, ICES-005
- Network Communication: IEEE 802.15.4 6LoWPAN, 50 Channel FHSS
- EMI: Complies with FCC CFR 47 15.208, 15.209 and ICES-005 (B)/ NMB-005 (B)

Ordering Number Logic

<table>
<thead>
<tr>
<th>ID</th>
<th>Voltage</th>
<th>Antenna</th>
<th>Location Option</th>
<th>GPS</th>
<th>Cellular Network</th>
<th>Network</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELWG</td>
<td>0 = 120-277V</td>
<td>C = Standard 18</td>
<td>XX = Default</td>
<td>G = Default</td>
<td>M = Modem ATT</td>
<td>G</td>
<td>None = Default</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>R = Modem Rogers</td>
<td></td>
<td>T = Telefonica</td>
</tr>
</tbody>
</table>

*Units come programmed to mesh network A. Other networks are programmed to the unit at the time of activation.

Examples
ELWG0CXXGM – 120-277V, Standard Antenna, GPS Gateway with Modem configured for ATT, Network A

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