



DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

Notes: _____

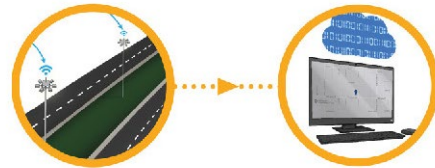
ELWC Series

Cellular Node

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.

SYSTEM ARCHITECTURE

Nodes reside on top of each light fixture, data travels directly from each node back to the server, without the need of a Gateway Modem.



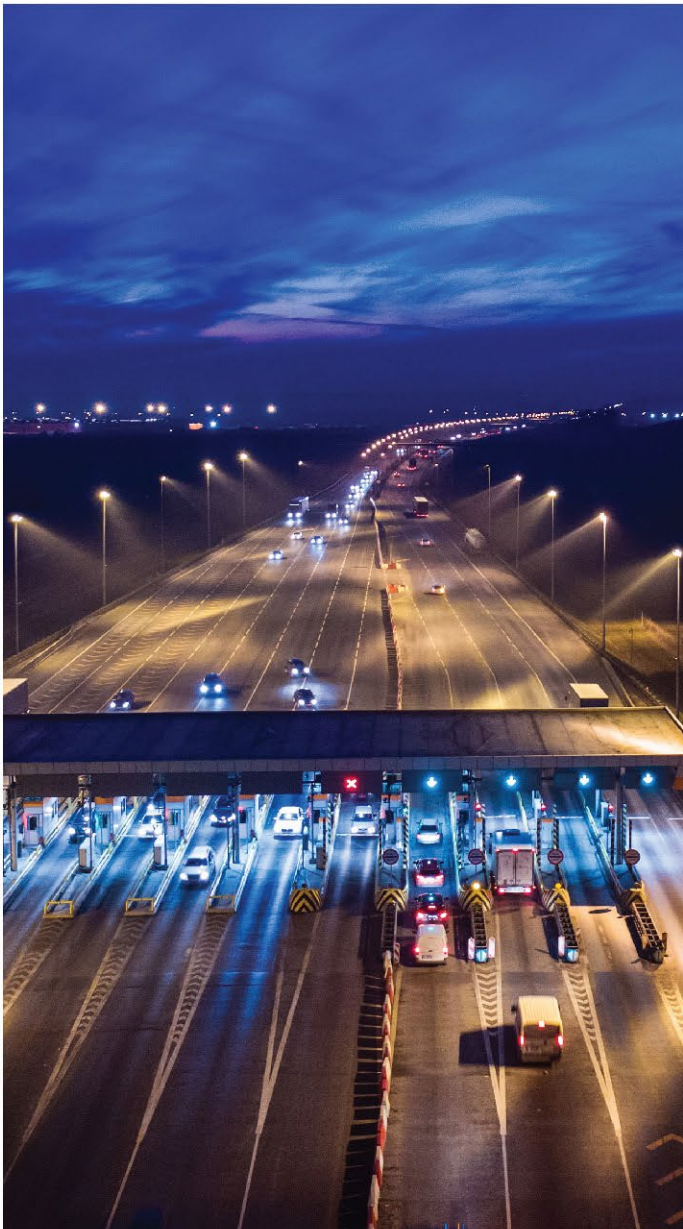
WHY CELLULAR?

In linear deployments such as highways or parking lots with low numbers of light poles, the low node-to-gateway count makes mesh systems less cost effective. Cellular point to point is an excellent cost-effective alternate to mesh in these deployments.

- **Optimized Energy Usage:** On/Off & Dimming
- **Query by Location:** Updated Every Hour
- **Reduce and Streamline Repair Calls:** Day Burner/Dark Night Alerts allows the user to customize alarm configurations for added flexibility.
- **Accurate Energy Usage Measurement:** +/- 0.5% Accuracy

PRODUCT FEATURES

- Universal Voltage (120-480V) Standard
- Enhanced Surge Protection 10kV/5kA per ANSI C136.2
- 0-10V (Analog) and DALI (Digital) Dimming Interfaces
- Connects through ANSI 7 Pin Connector
- Integrated GPS and Tilt Sensor
- Max Load 1000 W / 1500 VA



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CATALOG LOGIC

ELWC	Model	Voltage	Configuration	Metering Type	Metering Precision	Commissioning	Maximum Load	Network	Location Options	Dimming	Options
ELWC	1	120-480V	A ANSI Socket	8 Load + Node	U 0.5% Utility Grade	B GPS	X 1000 W / 1500 VA	X 4G (LTE)	XX Default	AD 0-10V/ DALI	None Default

Example

ELWC1A8UBXXXXAD: 120-480V, ANSI Socket, Load + Node Metering, Utility Grade Precision, GPS Commissioning, Max Load 1000 W / 1500 VA, LTE Network, 0-10V / DALI Interface

NODE SPECIFICATIONS

- Input Voltage: 120-480V
- Both 0-10V and DALI Dimming Supported, per ANSI C136.41
- Operating Temp: -40° to +50°C
- Surge Protection: 10kV/5kA Standard, per ANSI C136.2
- Typical Power Consumption: 1.5W @ 120V, 2W @ 277-347V, 2.4W @ 480V
- Photocell Operation complies ANSI to C136.10
- GPS Accuracy: +/- 3m in clear open sky
- Max Load Capacity: 1000 W / 1500 VA
- Inrush Current Limiting at Turn On
- Utility Grade Energy Measurement per ANSI C12.20 (0.5%)
- IR Output for Utility Meter Calibration Validation
- Ingress Protection: Class IP65
- Weight: 0.52 lb / 0.24 kg

NETWORK, COMPLIANCE & SECURITY

- Wireless networks: 4G Cellular (LTE) Cat-M1
- Band Compliance: CAT-M Bands 2, 4, and 12
- Carrier Certifications: AT&T, PTCRB
- Digital emissions: FCC 2018 15B (US), CAN ICES (A) / NMB (A)
- RF Certifications: Includes FCC ID: XMR201707BG96 / IC ID: 10224A-201707BG96
- Security: AES Encryption and "End to End" Certificate Based Authentication



WARRANTY

5 Year (Standard)

10 Year (Extended)