



CityEdge 4-Pin External Networked Lighting Controller

Secure, proven, two-way lighting control for any deployment.

The CityEdge 4-Pin External Networked Lighting Controller offers reliable, secure, two-way control and monitoring of outdoor lights. Equipped with an Itron communications chip, the Zhaga compatible module unlocks the true potential of the Industrial Internet of Things (IIoT). Itron CityEdge delivers a proven, reliable and scalable multi-purpose network platform, coupled with the industry's most diverse partner ecosystem, to provide cities and utilities a path towards building an interoperable smart city environment.

As the first external luminaire module to be certified as D4i compliant, this NLC is recognized by the industry for its multi-vendor interoperability and future-readiness. It is designed to keep pace with the rapidly changing world of smart city sensing technology.

Compact Design

The low-profile NLC was purposely engineered to blend seamlessly into the environment after installation, providing a more aesthetic, modern appearance.

Interoperable

With universal luminaire plug-and-play compatibility, the NLC future-proofs your technology investment.

Easy Installation

By using the standardized Zhaga book 18 interface, the NLC is quick and easy to install.

Key Benefits of the External NLC:

- » Designed for interoperable compliance standards.
- » Low-profile, compact design
- » Plug-in-play installation
- » Up to 65% energy savings when deployed in conjunction with LED lights.
- » Up to 40% operational savings through control and monitoring
- » Robust multilayer security with end-to-end encryption and full PKI (X.509) infrastructure
- » Redundant, auto-healing, auto configuring network using open standards such as IPv6 and IEEE 802.15.4g
- » Over-the-air configuration and firmware upgrades
- » Compatible with D4i LED drivers
- » Electrical metering parameters monitoring (measured by D4i LED driver): V, W, A, PF, frequency

CITYEDGE 4-PIN EXTERNAL NLC

Benefits of Streetlight Control:

With networked streetlights, cities and utilities can leverage the benefits of modern luminaire control, gain a complete picture over their lighting assets and provide an IIoT network platform to support new smart city sensors and applications.

- » Use dimming controls to extend the lifespan of LED luminaires and improve lumen output over time.
- » Be alerted to common lighting problems such as day burners, flickering and more.
- » Immediately address customer concerns remotely without rolling a truck.
- » Cost-effectively add additional smart city applications under the networked streetlight canopy.
- » Pole tilt sensor is embedded, and the parameters are remotely configurable.

ITRON CITYEDGE

When paired together with Itron's advanced CityEdge Platform, the Central Management System (CMS) front end software, cities and utilities receive a best-in-class solution for efficient luminaire

operation. The robust network capabilities and use of open standards allow the network to support additional smart city applications such as traffic-light control, parking automation and other networked sensors for enhanced living.



Itron CityEdge includes multi-layer security policy enforcement and monitoring with end-to-end encryption (AES-128/256) and access control to ensure protection of critical infrastructure and data. DC Powered 24VDC CMS Node compatible with the Itron Networks Interface Card (NIC).

Technical Specifications

Turn ON Light Level	Configurable lux switch levels. Can also be set by schedule.
Housing Material	UV Stabilized Polycarbonate
Enclosure protection (ingress & impact)	IP66 & IK08
Dimensions	H 55mm x D 80mm; Weight 115g
Switch Ratio (OFF:ON)	Typically 1.5:1; however, configurable to your requirements.
Warranty	10 years
Operating Temperature Range	-30°C to +70° C (-22°F to +158°F)
Circuit Power Consumption	<1.5 Watts Average Power @24 VDC
Manufacturing Standard	ISO 9001:2015
Product Conforms with Standards	LVD: EN 61347-1 & EN 61347-2-11; EN 60529; EN 62262; EN 62311 EMC : EN 301 489 -1, -3, -19 ; EN 55032, EN 55035 RADIO : EN 303 204 ; EN 300 220-1,2 ; EN 303 659 ; EN 303 413
Operating Voltage	24 VDC +/- 10%
Regulatory Compliance	RED, EU directive 2014/53/EU, RoHS, CE
LED driver compatibility	DALI-2, D4i certified driver
Itron Networking Specification	Powerful 24 dBm radio, Frequency-hopping Spread Spectrum up to 100 kb/s mesh networking, Automatic data routing with self-configuration, auto-healing & redundant uplinks, IPv6 transport. Full application & link-layer security with full PKI, AES-128 and -256, and embedded firewall, Wi-SUN Communication Standard.



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Corporate Headquarters
2111 North Molter Road
Liberty Lake, WA 99019 USA
Phone: 1.800.635.5461
Fax: 1.509.891.3355