

SELC Zhaga External Luminaire Module

COMPACT, LOW-PROFILE DESIGN IDEAL FOR TODAY'S LED FIXTURES

The SELC Zhaga external luminaire module offers reliable, secure, two-way control and monitoring of outdoor lights. Equipped with an Itron communications chip, the Zhaga module unlocks the true potential of the Industrial Internet of Things (IIoT). The reliable and proven Itron network infrastructure provides cities and utilities a path towards building an interoperable smart city environment.

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

Compact Design

The low-profile SELC Zhaga module was purposely engineered to blend seamlessly into the environment after installation.

Interoperable

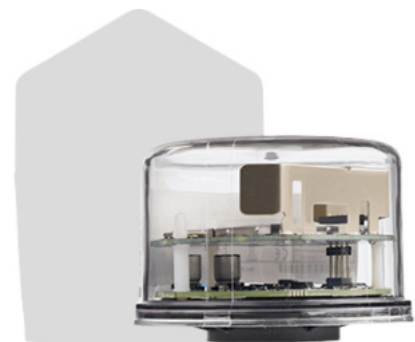
With universal luminaire plug-and-play compatibility, the SELC Zhaga module future-proofs your technology investment.

Easy Installation

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

Key Benefits of the SELC Zhaga Luminaire Module:

- Designed towards 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
- Energy metrology up to 0.5% accuracy, with per day, per hour, or per minute records
- 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



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Benefits of Streetlight Control:

With networked streetlights, cities and utilities are able to leverage the benefits of luminaire control while getting a complete picture over their lighting assets.

- Use dimming controls 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

Itron Lighting Solution

When paired together with Itron's advanced Streetlight Vision 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.

The Itron Solution 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 Rota V2 NIC and D4i Certified.

Technical Specifications

Turn ON Light Level	Configurable lux switch levels. Can also be set by schedule.
Housing Material	UV Stabilized Polycarbonate
Enclosure Sealing	IP66 as Standard.
Dimensions	H 55mm x D 80mm; Weight 115g
Switch Ratio (OFF:ON)	Typically 1.5:1; however, configurable to your requirements.
Guarantee	2 years* Extended Warranty Available
Operating Temperature Range	-30°C to +60° C (-22°F to +140°F)
Circuit Power Consumption	<1.5 Watts Average Power @24 VDC
Manufacturing Standard	EN ISO 9001:2015
Photo Control designed to satisfy the following standards	EMC EN55015, EN61547 EN61000-3-2.EN61347, RED, EU directive 2014/53/EU
Operating Voltage	24 VDC +/- 10%
Compliance	RoHS, FCC, CE
Options for controlling LED driver	DALI D4i
Itron Networking Specification	Powerful 24dBm radio, Frequency-hopping Spread Spectrum up to 300kb/s mesh networking, Automatic data routing with self-configuration, auto-healing & redundant uplinks, 1Pv6 transport Full application & link-layer security with full PKI, AES-128 and -256, and embedded firewall, WiSun Communication Standard.



*Guarantee subject to SELC Terms & Conditions. All specifications subject to change without notice.

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