



StarLight™ Luminaire Control Module

The **REGULUS StarLight Luminaire Control Module (LCM)** is the device for monitoring and controlling LED luminaires in concert with the **REGULUS Constellation Luminaire Network Management System**. The LCM communicates with the LMS via the **REGULUS Constellation Network Access Module (NAM)**, which implements a powerful hub for a star radio network topology using long-reach RF links.

The LCM can be retrofitted to any LED luminaire with a standard ANSI twist lock photocontrol connector and a LED driver that is controllable with a standard 10V interface or DALI. The LCM replaces the existing photocontrol, and greatly decreases luminaire maintenance by eliminating failure-prone photocontrols.

The LCM controls the LED brightness or on-off state through the LED driver control, under control of a programmed daily dimming cycle. In addition to measuring daylight intensity, the LCM can compute turn on and turn off times from location information, time of day, and sidereal equations.

The LCM monitors many luminaire quantities, such as mains voltage, current, power factor, energy consumption,

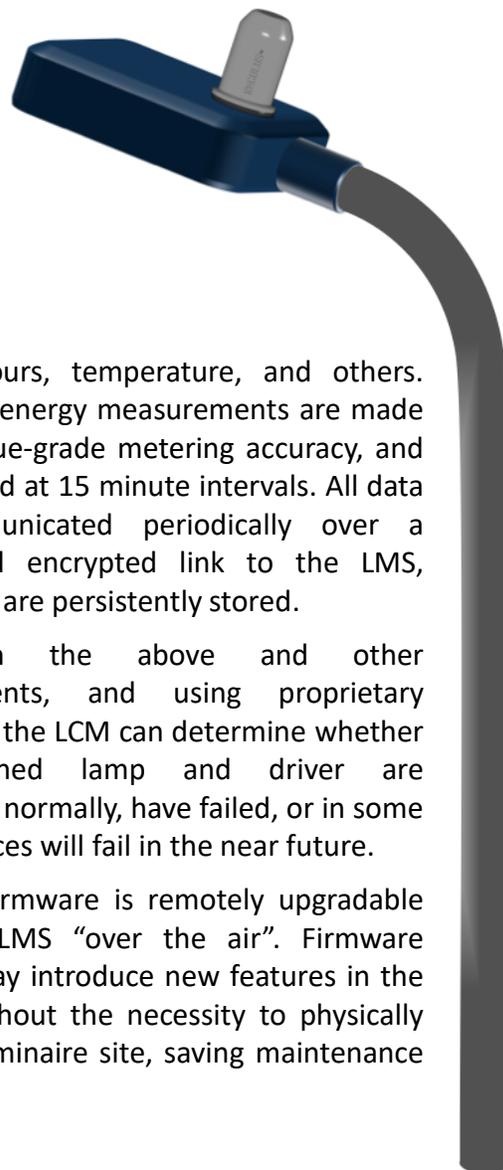
burning hours, temperature, and others. Power and energy measurements are made with revenue-grade metering accuracy, and are recorded at 15 minute intervals. All data are communicated periodically over a secure and encrypted link to the LMS, where they are persistently stored.

Based on the above and other measurements, and using proprietary algorithms, the LCM can determine whether the attached lamp and driver are functioning normally, have failed, or in some circumstances will fail in the near future.

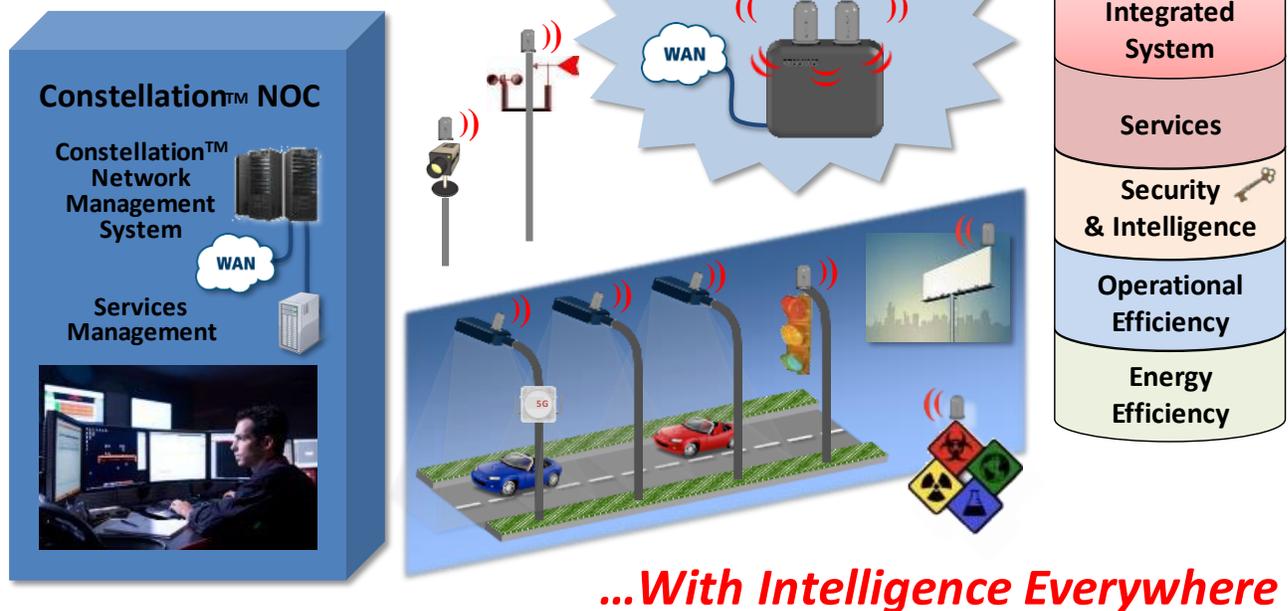
The LCM firmware is remotely upgradable from the LMS “over the air”. Firmware upgrade may introduce new features in the future without the necessity to physically visit the luminaire site, saving maintenance costs.

Environmental and Safety Specifications

Temperature Range:	-40 to +85 °C
Ingress Protection Rating:	IP66
Safety Compliance:	CSA, UL, CE
Voltage Range:	90 to 480 Vac, 50 to 60 Hz



The Smart City Arrives...



...With Intelligence Everywhere

The **REGULUS Constellation Luminaire Communications Network** and **Network Management System** will take your street lighting and city to new heights of cost efficiency, service, and intelligence.

Introduce monitoring and control of all your NEMA-socketed LED luminaires with Regulus Luminaire Control Modules. Two-way, secure, reliable, unlicensed spectrum radio communications in each individual streetlight will allow you to save money by reducing energy consumption and dramatically reducing maintenance. And you can retrofit your existing LED luminaires from any manufacturer which have an ANSI-standard control connector with these capabilities.

Remotely manage and monitor your entire streetlight network at a glance in one central Network Operations Centre. Know exactly which streetlights have failed or may soon fail. Automatically measure exact energy consumption of each streetlight centrally every day. Control any individual streetlight from a secured, centralized point.

Integrate your streetlights city-wide with emergency responders. Or use your centralized control for demand-response load reduction. With the **REGULUS Constellation** network management and **StarLight** products, intelligence becomes truly smart. **REGULUS – brilliant solutions™**

