



# Request for Quote

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS  
 ONE CAPITOL HILL  
 PROVIDENCE RI 02908

BUYER: Hill, Lisa  
 PHONE #: 401-574-8118

CREATION DATE : 02-AUG-16  
 BID NUMBER: 7550845  
 TITLE: CIMCON WIRELESS LIGHTING CONTROLLERS  
 BID CLOSING DATE AND TIME: 26-AUG-2016 10:30:00

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 DOT MAINTENANCE BUSINESS OFFICE  
 360 LINCOLN AVE  
 WARWICK, RI 02888  
 US

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 DOT ACCOUNTS PAYABLE  
 TWO CAPITOL HILL, RM 230  
 SMITH ST  
 PROVIDENCE, RI 02903  
 US

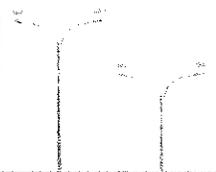
Requisition Number: 1461850

Line	Description	Quantity	Unit	Unit Price	Total
1	DOT: CIMCON WIRELESS LIGHTING CONTROLLER - WITH TILT SENSOR - INCLUDING 10 YEAR WARRANTY, SERVICE, CONFIGURATION, & COMMUNICATION COSTS (INCLUDING NAAS, SOFTWARE MAINTENANCE, LICENSE FEE, GPS) DELIVERY ADDRESS:  RIDOT MAINTENANCE HEADQUARTERS 360 LINCOLN AVE WARWICK, RI 02888	200.00	Each		
2	DOT: CIMCON WIRELESS LIGHTING CONTROLLER - WITHOUT TILT SENSOR - INCLUDING 10 YEAR WARRANTY, SERVICE, CONFIGURATION, & COMMUNICATION COSTS (INCLUDING NAAS, SOFTWARE MAINTENANCE, LICENSE FEE, GPS)	365.00	Each		

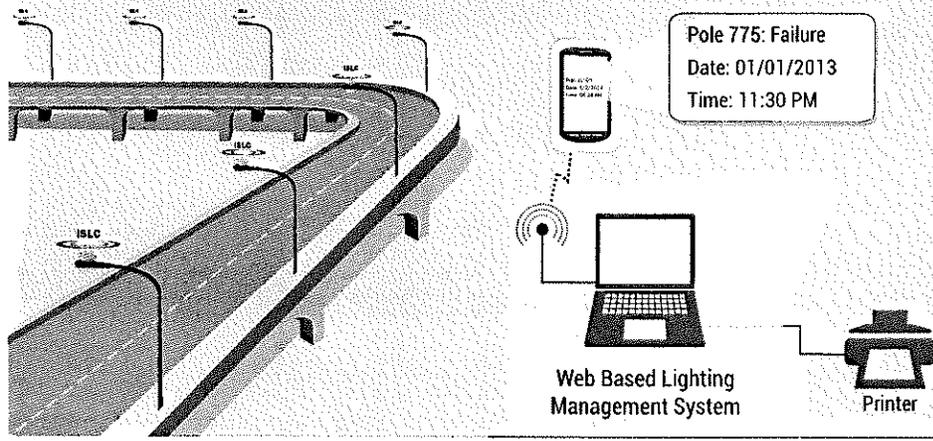
Delivery: \_\_\_\_\_

Terms of Payment: \_\_\_\_\_

It is the Vendor's responsibility to check and download any and all addenda from the RIVIP. This offer may not be considered unless a signed RIVIP generated Bidder Certification Cover Form is attached and the Unit Price column is completed. The signed Certification Cover Form must be attached to the front of the offer



**Plug & Play Wireless Lighting Controller with Dimming Capabilities**



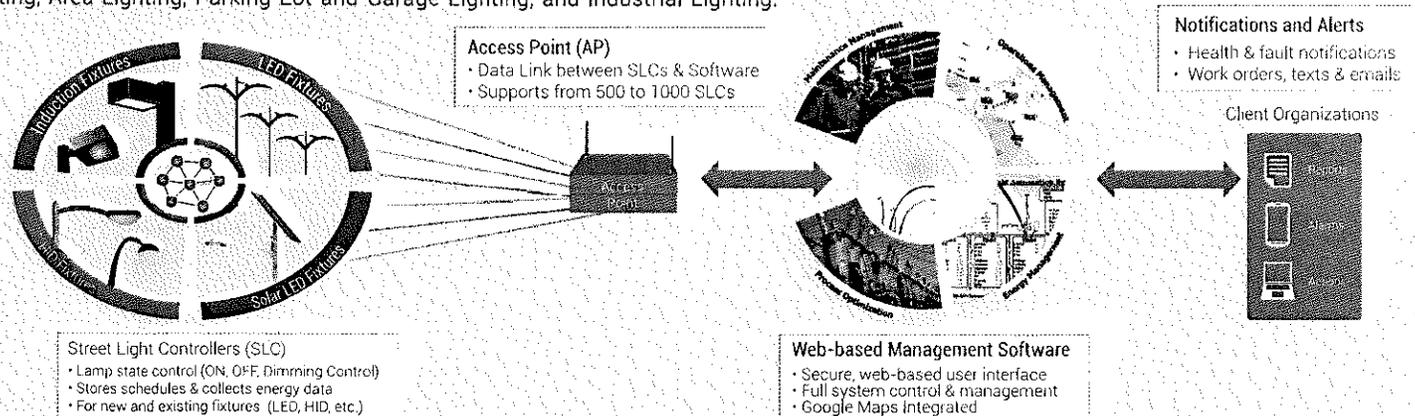
The iSLC-3100-7P-S is an intelligent wireless controller that uses a highly robust and reliable self-forming and self-healing RF mesh network, and is economical for use on individual light fixtures for remote control and operations. Each iSLC-3100-7P-S provides intelligent on/off switching, dimming control, accurate power metering and health monitoring of the light fixture. Support is also included for inputs from motion or light sensors for control of groups or individual light fixtures.

**Key Features of the SLC-3100-7P-S**

- **Robust and Reliable:** Reliably operates over large distances.
- **Wireless Technology:** The controller utilizes the latest developments in wireless RF technology that is self-forming and self-healing.
- **Light-Agnostic Support:** Works with any lamp type or manufacturer.
- **Simple and Easy Remote Monitoring:** The controller monitors various assets of the lighting fixture and updates the Central Management Software.
- **Remote Control and Scheduling:** The controller supports five lamp control modes. Control can be based on user configurable ON/OFF/DIM schedules programmed on a daily / monthly special events basis or can be controlled locally using a built-in astro-clock that calculates sunset and sunrise times using location and time zone data throughout the year.
- **Dimming Control:** The controller supports dimming of any lamp with a 0-10V or PWM or DALI input ballast with dimming schedules.
- **Power Metering:** The controller can monitor electrical parameters such as Current, Voltage, Frequency, Power Factor, KW and Kwh.
- **Fault Monitoring:** Extensive fault monitoring is provided that reports lamp burn outs, lamp cycling, ballast failure, over/under voltage, abnormal power consumption, low power factor, communication failure and more. All faults are sent to the Web-based Management Software that generates alarms for visualization and fault rectification.
- **Alarm Call Service:** Alarms can be sent directly to relevant users via Emails or Text Messages (SMS) when they occur. Messages are time stamped and contain key parameters associated with the fault/alarm.
- **Burn Hours:** The controller keeps track of lamp burn hours for predictive maintenance, allowing pro-active lamp replacement.
- **Plug and Play Installation:** iSLC 3100-7P-S uses the latest 7pin NEMA interface for a true plug and play installation that includes dimming and motion based controls.

**Intelligent Wireless Outdoor Lighting Control System**

CIMCON and Silver Spring Networks's integrated lighting control system is made up of Outdoor Lighting Controllers (SLC units), Access Points (APs) and Web-based Management Software. This control system is available for LED Fixtures, Traditional HID Fixtures, Induction Fixtures and Solar-based Light Fixtures, and can be utilized in a wide variety of outdoor applications, including but not limited to: Street Lights, Roadway Lighting, Area Lighting, Parking Lot and Garage Lighting, and Industrial Lighting.



# iSLC-3100-7P-S

Plug & Play Wireless Lighting Controller

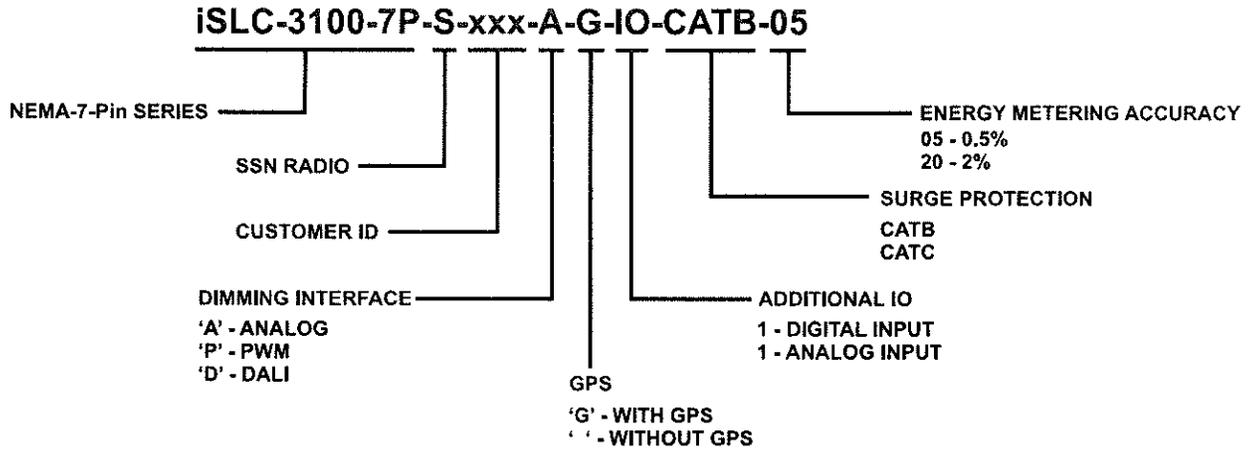
## Technical Specifications

<b>Controller</b>	Powerful 16 bit Microcontroller
<b>Real Time Clock</b>	Battery Backed RTC
<b>Power Metering</b>	Parameters Measured: Voltage, Current, Power Factor, Frequency, KW and Kwh
<b>Switching Capacity</b>	15 Amp Max
<b>Power Supply</b>	Universal AC input 90V-305V, 50/60Hz
<b>Radio Communication (Silver Spring Networks)</b>	Processor: ARM 7, RAM: 8 MB, Flash: 16 MB NAN Network: Date Rate: 50 to 300 kbps Frequency Range: 902-928 MHz Spread Spectrum: Frequency Hopping Transmitter Output: 27-30 dBm (1W) Receiver Sensitivity: -98 dBm for 10% PER Protocol: IEEE 802.15.4g Security: Addressing: IPv6 Encryption: Advanced Encryption Standard (AES-128 or AES-256) Security: Secure Hash Algorithm 256-bit (SHA-256) and RSA-1024 or ECC-256 Key storage: Secure NVRAM with tamper detection and key erasure
<b>GPS Module Specification (Optional)</b>	Receiver Type: 22 Tracking/66 Acquisition Channel GPS Receiver GPS L1, C/A Code Max. Update rate: 10Hz Sensitivity: Tracking: -165 dBm Reacquisition: -160 dBm Cold starts: -147 dBm Time-To-First-Fix: Cold starts: 31s (typical) Warm starts: 30s Hot starts: <1s EPO Assist: 13s(CTTFF) Accuracy: Automatic Positioning: 2.5m CEP Speed: 0.1m/s Operating Temperature: -40° C to +85° C
<b>Dimming Interface</b>	Control Voltage: 0-10V Maximum Current: 10mA With Short Circuit protection or PWM Dimming: 10V p-p, 400Hz Maximum Current: 10mA (Sink) or DALI
<b>Optional Features</b>	Provision of One Digital input and one Analog input that can be used for motion based lighting controls, adaptive lighting or advanced lighting controls
<b>Standard Surge Protections</b>	320 Joule CAT B or (700 Joule CAT C Optional)
<b>Operating Conditions</b>	-20° C to +70° C / -4° F to +158° F (-40° C optional), 20% to 90% Rh non-condensing
<b>MTBF</b>	210 Khrs MIL-HDBK-217F (25° C)
<b>RoHS</b>	Yes
<b>Central Management Software</b>	Web-based software allows remote configuration, monitoring, control, and reporting

# iSLC-3100-7P-S

Plug & Play Wireless Lighting Controller

## Ordering Information

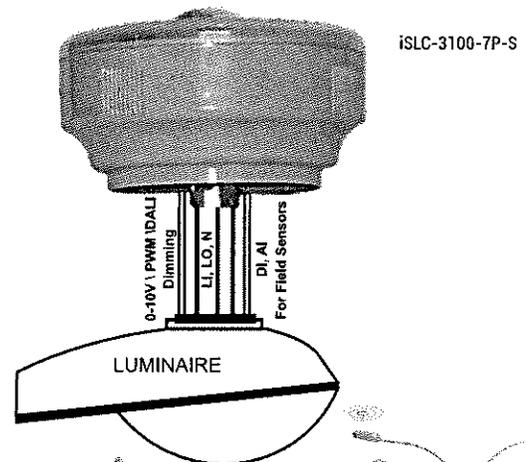
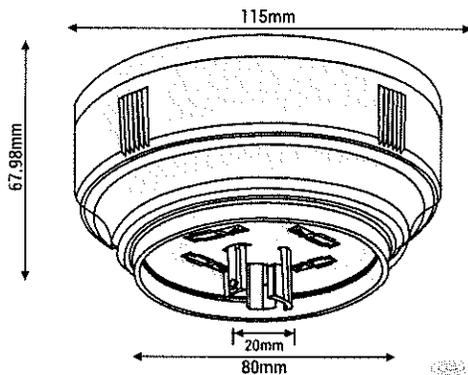


## Ordering Code

iSLC3100-7P-S-xxx <sup>#</sup> -A-CATB-xx*	iSLC3100-7P-S-xxx <sup>#</sup> -P-CATB-xx*	iSLC3100-7P-S-xxx <sup>#</sup> -D-CATB-xx*
iSLC3100-7P-S-xxx <sup>#</sup> -A-IO-CATB-xx*	iSLC3100-7P-S-xxx <sup>#</sup> -P-IO-CATB-xx*	iSLC3100-7P-S-xxx <sup>#</sup> -D-IO-CATB-xx*
iSLC3100-7P-S-xxx <sup>#</sup> -A-G-CATB-xx*	iSLC3100-7P-S-xxx <sup>#</sup> -P-G-CATB-xx*	iSLC3100-7P-S-xxx <sup>#</sup> -D-G-CATB-xx*
iSLC3100-7P-S-xxx <sup>#</sup> -A-G-IO-CATB-xx*	iSLC3100-7P-S-xxx <sup>#</sup> -P-G-IO-CATB-xx*	iSLC3100-7P-S-xxx <sup>#</sup> -D-G-IO-CATB-xx*
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iSLC3100-7P-S-xxx <sup>#</sup> -A-G-IO-CATC-xx*	iSLC3100-7P-S-xxx <sup>#</sup> -P-G-IO-CATC-xx*	iSLC3100-7P-S-xxx <sup>#</sup> -D-G-IO-CATC-xx*

**Note:** \* xx indicates Energy Metering accuracy  
 # indicates Customer ID

## Mechanical Dimensions



### Worldwide Headquarters

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 Fax: (978) 392-9869  
 E-mail: sales@cimconlighting.com

### European Office

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 40 Bank Street, 30th Floor,  
 Canary Wharf, London E14 5NR UK.  
 Tel: (+) 44 (0) 20 3102 7966  
 E-mail: sales.eu@cimconlighting.com

### Asia Pacific Office

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 Ahmedabad-380 066, India.  
 Tel: +91-79-2657 8639  
 Fax: +91-79-2657 8659  
 E-mail: sales.apac@cimconlighting.com

**Contract Terms and Conditions**

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## **Terms and Conditions**

### **BID STANDARD TERMS AND CONDITIONS**

### **TERMS AND CONDITIONS FOR THIS BID**

#### **RIVIP INFO - BID SUBMISSION REQUIREMENTS**

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**MAILING ADDRESS FOR BID PROPOSALS ISSUED BY THE STATE OF RHODE ISLAND,  
DIVISION OF PURCHASES**

All Bid Proposals must be submitted by mail or hand delivered to:

- State of Rhode Island
- Department of Administration
- Division of Purchases, Second floor
- One Capitol Hill
- Providence, RI 02908-5855

#### **DIVESTITURE OF INVESTMENTS IN IRAN REQUIREMENT:**

**No vendor engaged in investment activities in Iran as described in R.I. Gen. Laws §37-2.5-2(b) may submit a bid proposal to, or renew a contract with, the Division of Purchases. Each vendor submitting a bid proposal or entering into a renewal of a contract is required to certify that the vendor does not appear on the list maintained by the General Treasurer pursuant to R.I. Gen. Laws §37-2.5-3.**

#### **DELIVERY PER AGENCY**

**DELIVERY OF GOODS OR SERVICES AS REQUESTED BY AGENCY.**