Project		Catalog #		Type	
Prepared by		Notes		Date	

WaveLinx

CAT Sensor Interface Module (SIM-C-V)

Offers connectivity to DualTech Analog Sensors

Typical Applications
Office • Education • Healthcare • Hospitality • Retail

⚲ Interactive Menu

Product Certification*

FC
Part 15

RoHS COMPLIANT

DLC LISTED

- Meets latest ASHRAE 90.1 - 2019 requirements
- Meets latest IECC - 2021 requirements
- Meets latest Title 24 - 2019 requirements
- Manufactured in an ISO 9001 certified factory

Product Features

CAT
Mobile App

Compatibility

WaveLinx CAT

Overview

The Sensor Interface module is an integral part of the WaveLinx connected lighting system and provides network addressability to a variety of Greengate dual tech sensors. The sensors are powered by the SIM module offers a limited configurability for sensor parameters through WaveLinx CAT mobile app.

Product Features & Benefits

- **Augment the sensor offering to meet the specifications –** Compatible with Greengate brand ceiling mount, wall mount / corner mount, and wallbox dual tech sensors
- **Simple Installation –** Powered by CAT Bus, no separate power supply is required
- **Easy to configure –** Limited remote configuration via WaveLinx mobile apps

⚲ **product diagrams**

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Order Information

Catalog Number

Catalog Number	Description
SIM-C-V	SIM-C Sensor Interface Module
SIM-OAC-DT-1000	SIM-C Sensor Interface Module with OAC-DT-1000 Ceiling Sensor Combo
SIM-OAC-DT-2000	SIM-C Sensor Interface Module with OAC-DT-2000 Ceiling Sensor Combo

Required Accessory

The WaveLinx CAT network requires termination of the local CAT bus network on both ends.

Catalog Number

Catalog Number	Description
ACC-C-TP-6PK	ACC-C Canbus Termination Plug - 6PK

Optional Accessories

Catalog Number

Catalog Number	Description
GGRJ45-03-G	RJ45 cables 3 feet
GGRJ45-10-G	RJ45 cables 10 feet
GGRJ45-25-G	RJ45 cables 25 feet
GGRJ45-50-G	RJ45 cables 50 feet
GGRJ45-100-G	RJ45 cables 100 feet
GGRJ45-10P-G	RJ45 cables 10 feet plenum rated
GGRJ45-25P-G	RJ45 cables 25 feet plenum rated
GGRJ45-50P-G	RJ45 cables 50 feet plenum rated
GGRJ45-100P-G	RJ45 cables 100 feet plenum rated

Product Specifications

Key Features

- List of compatible Greengate Sensor Catalog number:
  - OAWC-DT-120W
  - OAWC-DT-120W-R
  - OAC-P-0500-R
  - OAC-P-1500
  - OAC-P-0500
  - ONW-D-1001-SP-W
  - ONW-P-1001-SP-W
  - OAC-DT-0501
  - OAC-DT-0501-R
  - OAC-DT-1000
  - OAC-DT-1000-R
  - OAC-DT-2000
  - OAC-DT-2000-R
  - OAC-P-1500-R
  - OAC-U-2000
  - OAC-U-2000-R
  - OXC-P-1500-R
  - OXC-P-2MH0-R
  - OCS-L-D-06
  - OCS-L-D-12
  - OCS-L-D-20
- Programmable by mobile app
- Device identification LED

Mechanical

Size: 2.28" W X 3.34" H X 1.5" D (58mm x 85mm x 38mm)

Mounting: Detachable mounting tabs

Color: Black

Environmental:

- **Operating temperature:** 32°F to 104°F (0°C to 40°C)
- **Operating relative humidity:** 5% to 85% non-condensing
- **Storage temperature:** -22°F to 158°F (-30°C to 70°C)
- For indoor use only

Electrical

Output Types:

- 24VDC pass through with protection to power a sensor (ONE Greengate sensor powered by ONE SIM)

Input Types:

- Two (2) non-isolated inputs from Greengate Sensor

Network connection:

- CAT-5 Solid Copper 24AWG
- T568B pin/pair assignment is recommended for all CAT-5 cable

Standards/Ratings*

- cULus Listed - Energy Management Equipment (UL916)
- FCC Part 15
- Manufactured in an ISO 9001 certified factory
- Meets latest ASHRAE 90.1 - 2019 requirements
- Meets latest IECC - 2021 requirements
- Meets latest Title 24 - 2019 requirements
- WaveLinx CAT is DLC Listed for interior applications - meeting the NLC5 Technical Requirements

Environmental Regulations:

- RoHS
- Plenum UL2043
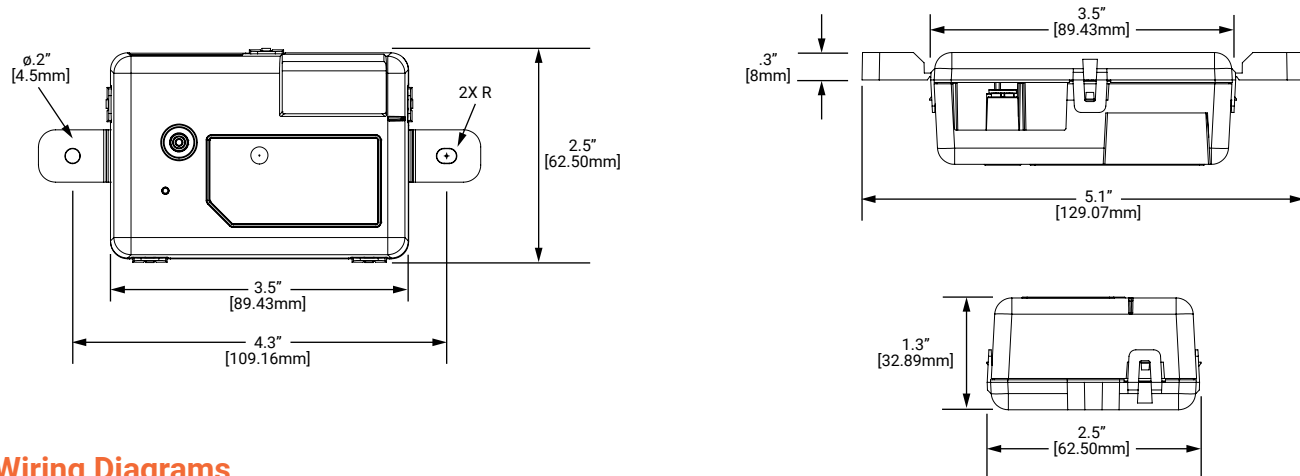- Chicago Plenum rated

Warranty

Five year warranty standard

Download the WaveLinx CAT Mobile Application from either the Google Play or Apple Store®

*T24 and RoHS are self-tested by Cooper Lighting Solutions. Not a third party certification.

Dimensional Details

Wiring Diagrams

OAC-DT-2000-R

SIM

BLUE -(CONTROL - OCC)   SENSOR 1 DATA
BLACK(COMMON)   GND
RED(POWER)   24V

CAT CABLE

Typical Topology

emergency power

normal power

normal power

OCS-C-*** ESP-C RSP-C BPI-C CCI-C WST-C-*   RSP-C SIM-C

To other WaveLinx CAT devices OR terminator plug

Contact Closure Input

To other WaveLinx CAT devices OR terminator plug

OAC-DT-2000-R
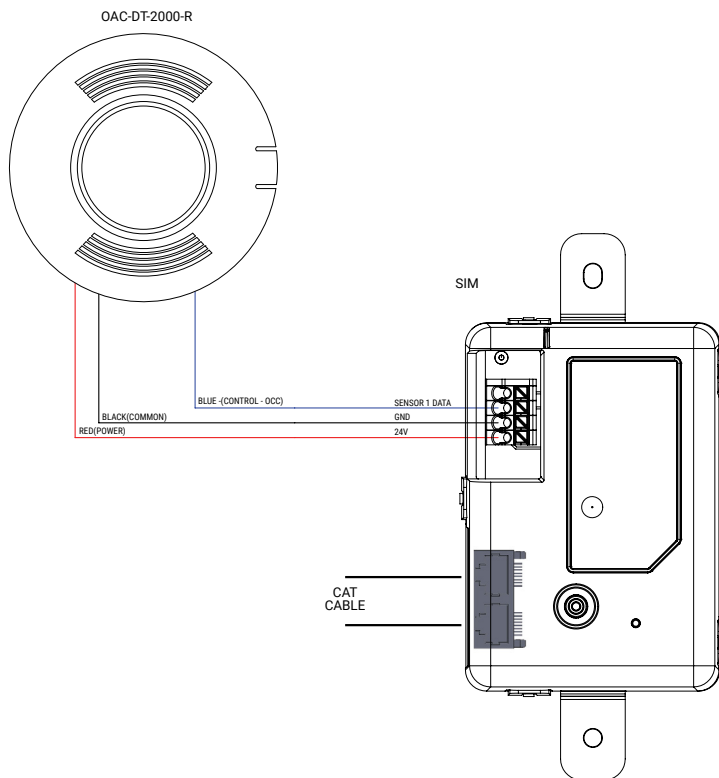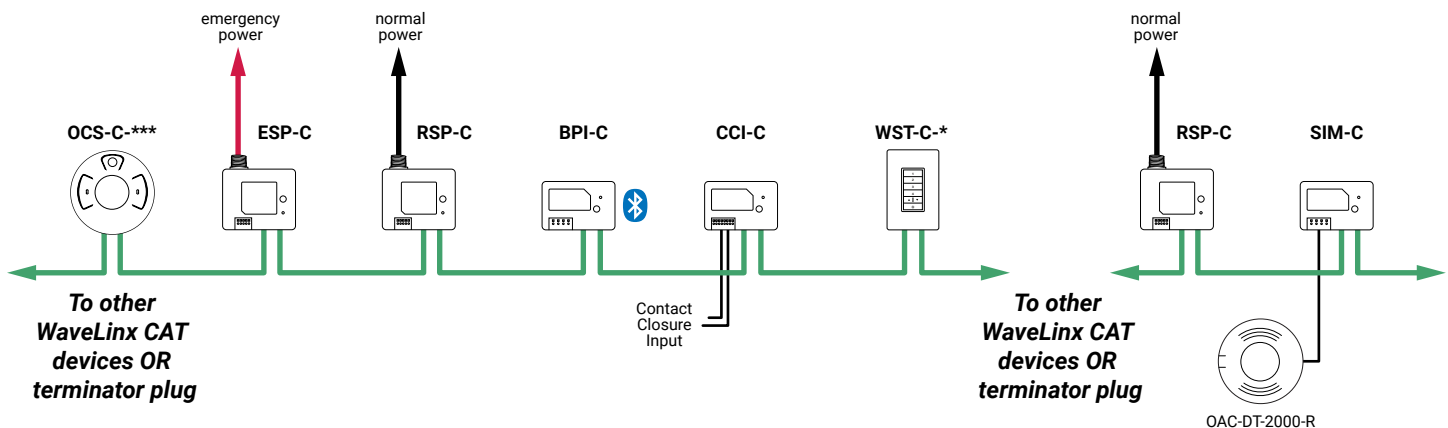
System Diagram:

This diagram shows the main components of the WaveLinx connected lighting system with CAT and PRO devices.
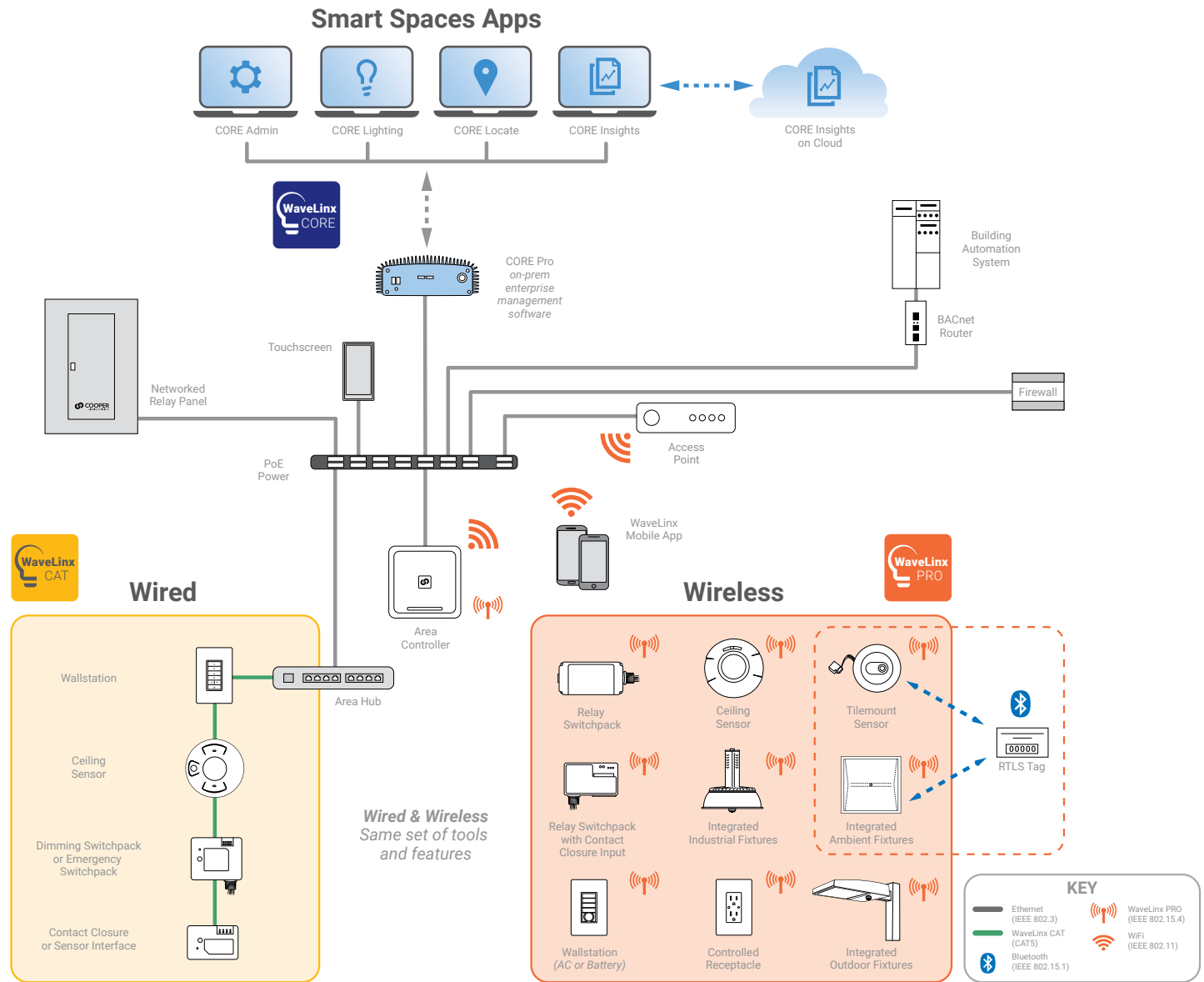
The PRO devices communicate using wireless mesh technology based on the IEEE 802.15.4 standard. A PoE LAN connection for each WaveLinx Area Controller (WAC) is required for power and data access to the building lighting network.

The CAT devices communicate over the category 5 based communication bus and control the light fixtures using a relay (on/off) and 0-10V output (dim/raise).

WaveLinx Area Controllers (WAC) communicate with WaveLinx CORE Apps over the Ethernet network.

View WaveLinx Network and IT Guidance Technical Guide

Smart Spaces Apps

- CORE Admin
- CORE Lighting
- CORE Locate
- CORE Insights
- CORE Insights on Cloud

WaveLinx CORE

CORE Pro *on-prem enterprise management software*

Building Automation System

BACnet Router

Touchscreen

Networked Relay Panel

Firewall

PoE Power

Access Point

WaveLinx Mobile App

WaveLinx CAT

Wired

- Wallstation
- Ceiling Sensor
- Dimming Switchpack or Emergency Switchpack
- Contact Closure or Sensor Interface

Area Hub

Area Controller

Wired & Wireless Same set of tools and features

WaveLinx PRO

Wireless

- Relay Switchpack
- Ceiling Sensor
- Tilemount Sensor
- RTLS Tag
- Relay Switchpack with Contact Closure Input
- Integrated Industrial Fixtures
- Integrated Ambient Fixtures
- Wallstation *(AC or Battery)*
- Controlled Receptacle
- Integrated Outdoor Fixtures

KEY

Ethernet (IEEE 802.3)	WaveLinx PRO (IEEE 802.15.4)
WaveLinx CAT (CAT5)	WiFi (IEEE 802.11)
Bluetooth (IEEE 802.15.1)	

Control Systems
- WaveLinx