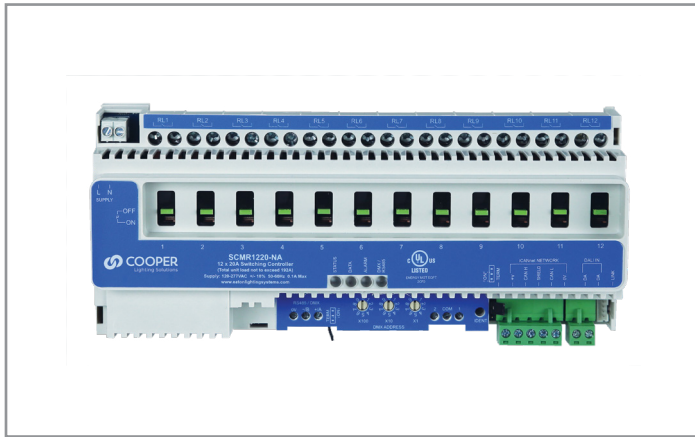| Project		Catalog #		Type	
Prepared by		Notes		Date	

WaveLinx Wired

SCMR1220-NA

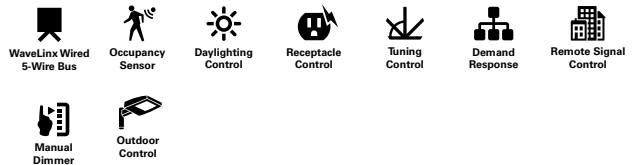12 Channel 20 AMP Feed through Relay control module

Typical Applications

Office • Education • Healthcare • Hospitality • Retail • Industrial • Manufacturing • Outdoor
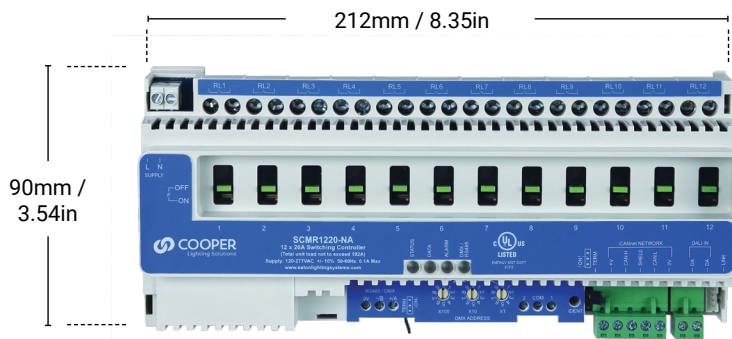
Interactive Menu

Product Certification

Product Features

WaveLinx Wired 5-Wire Bus	Occupancy Sensor	Daylighting Control	Receptacle Control	Tuning Control	Demand Response	Remote Signal Control

Manual Dimmer	Outdoor Control

Top Product Features

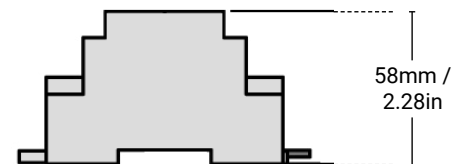- Twelve 20A latching feed through relays
- Supports multiple phases
- Switches resistive, inductive and capacitive lighting loads
- Build in relay sequence delay to avoid large inrush
- Manual override per relay
- Alarm and Emergency input

Dimensions

212mm / 8.35in

90mm / 3.54in

Two key hole slots as an alternative to DINRail fixing

58mm / 2.28in

additional product diagrams

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Lighting Solutions

Order Information

This is an accessory for the WaveLinx Wired system. When ordering specify the SCMR1220-NA as a separate system accessory. SCMR1220-NA can also be provided factory installed in a WaveLinx Wired Area Controller (see that cut sheet)

Catalog Number

Catalog Number	Description
SCMR1220-NA	12 channel 20A feed

Product Specifications

Key Features

- 12 x 20A feed through relays
- Any phase on any input
- Mounts to standard Top Hat (TS35) DINRail
- Switches resistive, inductive and capacitive lighting loads
- Intelligent 'Built in' propagation delay for switching sequence 1-12
- Manual override of any channel
- Integral processor
- Digital network connections
- DALI input (12 address DALI end device)
- RS485 / DMX512 input with DMX base address rotary switches
- 2 x Auxiliary Inputs
- Configuration stored in Non Volatile EEPROM
- Configurable start up mode

Mechanical

Weight: 0.8kg, 1.7637lbs

Operating temperature: +2ºC to +50ºC

Note: All enclosures must be adequately ventilated

Max storage temperature: +60ºC

Humidity: +5 to 95% non-condensing

Environmental protection: IP20

Electrical

Control: Via digital network connection, DMX or DALI

Supply: 120-277VAC -/+ 10% 50/60HZ, 0.1A MAX

Integral iCANnetTM Network Power Supply: 15V 500mA

Output channel current: Maximum 20A at 40ºC

(Total unit load not to exceed 192A)

Note: Fully loaded channels should be spaced every other channel to prevent heat buildup

Relay outputs: Capable of switching capacitive inductive or resistive loads

Loads - maximum cable size: 12AWG per circuit

Protection: Provided by installer - use supply MCB, 6A or less

Standards/Ratings

- cULus Listed - Energy Management Equipment (UL916)
- Manufactured in an ISO 9001 certified factory
- Meets ASHRAE Standard 90.1 requirements
- Meets IECC 2015 requirements
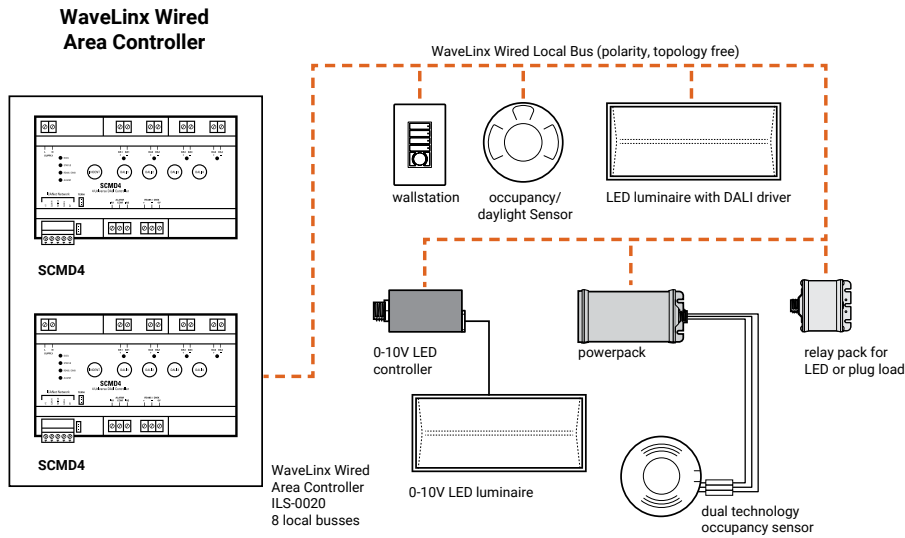- Meets CEC Title 24 requirements

Environmental Regulations:
- RoHS Directive 2011/65/EU

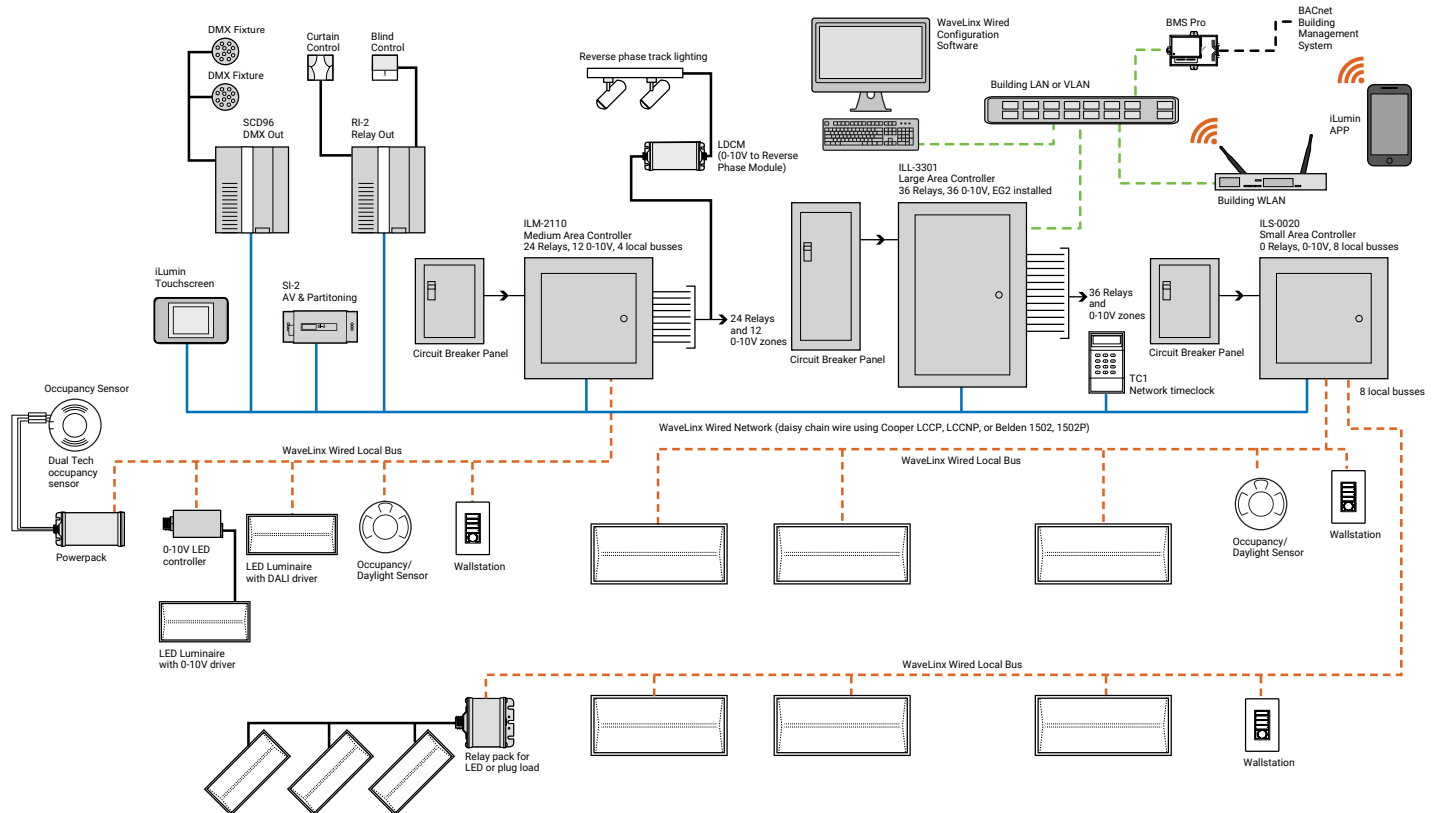### Warranty

Five year warranty standard

System architecture

Simple WaveLinx Wired system

WaveLinx Wired Area Controller

WaveLinx Wired Local Bus (polarity, topology free)

wallstation

occupancy/daylight Sensor

LED luminaire with DALI driver

SCMD4

SCMD4

WaveLinx Wired Area Controller ILS-0020 8 local busses

0-10V LED controller

powerpack

relay pack for LED or plug load

0-10V LED luminaire

dual technology occupancy sensor

Complete WaveLinx Wired system

DMX Fixture

DMX Fixture

Curtain Control

Blind Control

Reverse phase track lighting

WaveLinx Wired Configuration Software

BMS Pro

BACnet Building Management System

Building LAN or VLAN

iLumin APP

SCD96 DMX Out

RI-2 Relay Out

LDCM (0-10V to Reverse Phase Module)

ILL-3301 Large Area Controller 36 Relays, 36 0-10V, EG2 installed

Building WLAN

ILS-0020 Small Area Controller 0 Relays, 0-10V, 8 local busses

iLumin Touchscreen

SI-2 AV & Partitoning

ILM-2110 Medium Area Controller 24 Relays, 12 0-10V, 4 local busses

Circuit Breaker Panel

24 Relays and 12 0-10V zones

Circuit Breaker Panel

36 Relays and 0-10V zones

Circuit Breaker Panel

TC1 Network timeclock

8 local busses

Occupancy Sensor

Dual Tech occupancy sensor

WaveLinx Wired Local Bus

WaveLinx Wired Network (daisy chain wire using Cooper LCCP, LCCNP, or Belden 1502, 1502P)

WaveLinx Wired Local Bus

Powerpack

0-10V LED controller

LED Luminaire with DALI driver

Occupancy/Daylight Sensor

Wallstation

Occupancy/Daylight Sensor

Wallstation

LED Luminaire with 0-10V driver

WaveLinx Wired Local Bus

Relay pack for LED or plug load

Wallstation

Overview

The SCMR1220-NA relay control module is a 12 channel 20A feed through relay unit that provides outstanding features and performance in a truly competitive and compact package. Each channel is rated for up to 20A and is designed to switch heavy loads of all types.

With a digital network, DMX and DALI connectivity, it has the capability of being linked with a virtually limitless number of other WaveLinx Wired products to build up to any size of system. This product is designed for projects where high power switching is required including LED's, fluorescents as well as non-lighting loads of any voltage up to 277VAC.

Sample System Topology:

This diagram shows the main components of the WaveLinx Wireless and Wired Connected Lighting system.

The **WaveLinx wireless system** communicates using wireless mesh technology based on the IEEE 802.15.4 standard. A PoE LAN connection for each Wireless Area Controller (WAC) is required for power and data access to the building lighting network.

The **WaveLinx wired system** controls the devices using relay, 0-10V, DMX and the WaveLinx wired digital local bus. The WaveLinx wired system connects to the building LAN using the EG2 module. Each WaveLinx wired area controller communicate on the WaveLinx wired network. The WaveLinx wired network supports over 60,000 devices.
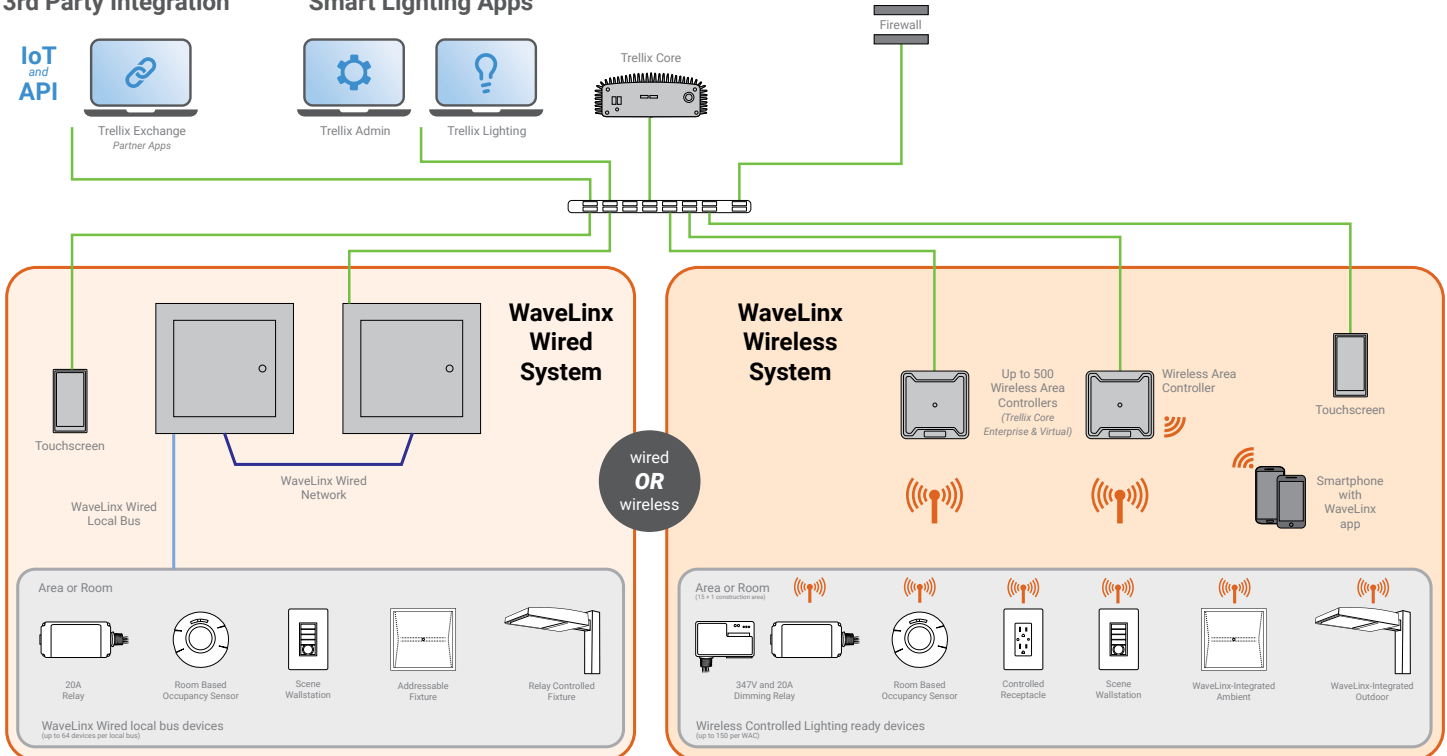
The Trellix Core, WaveLinx Area Controllers (WAC) and WaveLinx Ethernet Gateways (EG2) communicate with each other over the Ethernet network.

Please refer to the WaveLinx Wireless Network and IT Guidance Technical Guide and WaveLinx Wired Network and IT Guidance Technical Guide for more information.

View WaveLinx Network and IT Guidance Technical Guide

3rd Party Integration

IoT *and* API

Trellix Exchange
Partner Apps

Smart Lighting Apps

Trellix Admin

Trellix Lighting

Trellix Core

Firewall

WaveLinx Wired System

WaveLinx Wireless System

Touchscreen

WaveLinx Wired Network

WaveLinx Wired Local Bus

wired *OR* wireless

Up to 500 Wireless Area Controllers *(Trellix Core Enterprise & Virtual)*

Wireless Area Controller

Touchscreen

Smartphone with WaveLinx app

Area or Room

20A Relay

Room Based Occupancy Sensor

Scene Wallstation

Addressable Fixture

Relay Controlled Fixture

WaveLinx Wired local bus devices
(up to 64 devices per local bus)

Area or Room
(15 + 1 construction area)

347V and 20A Dimming Relay

Room Based Occupancy Sensor

Controlled Receptacle

Scene Wallstation

WaveLinx-Integrated Ambient

WaveLinx-Integrated Outdoor

Wireless Controlled Lighting ready devices
(up to 150 per WAC)

Control Systems

- Trellix
- WaveLinx Wireless
- WaveLinx Wired
- VividTune

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