



### OVERVIEW

The CRC1201 Integrated Programmable Controller (IPC) is the main processing device of the 2-Wire system. It directs commands received from input devices or the host system to the lighting control devices for ON/OFF and Dimming Control.

### FEATURES

- New IoT (Internet of Things) chipset allows for real-time control and status feedback of all connected devices via web server functionality
- Provides signal and power to the connected 2-Wire bus devices through polarity-free, topology-free 2-Wire communication bus
- Program setting, control, and monitoring of the system achieved through embedded device software accessed via ethernet connection
- Built-in Real Time Clock (RTC) provides reliable event scheduling for the system
- Built-in Modbus (RS-485 and TCP/IP)
- BACnet connectivity and control available through an additional protocol converter
- Built-in LED status lights for system troubleshooting
- Global Addressing allows for cross-system monitoring and control

### ADDRESSING

#### INDIVIDUAL CONTROL FUNCTIONS:

- 256 Individual addresses  
(0-1,0-2,0-3,0-4,1-1,...63-4)
- ON/OFF Control
- Dimming Level (1~127)

#### PATTERN CONTROL FUNCTIONS:

- 72 Pattern addresses
- Scene Control
- Dimming Level (1~127)  
(Set internal to Pattern)

#### GROUP CONTROL FUNCTIONS:

- 127 Group addresses
- Group ON/OFF Control
- Dimming Level (1~127)  
(Only through software control)

#### GLOBAL CONTROL FUNCTIONS:

- Control Individual, Group, or Pattern Addresses in other IPC/SPC through any available Individual Address on current system

## SPECIFICATIONS

Size: 2.35”H x 3.94”W x 4.90”L (Overall)  
 (60mm x 100mm x 124mm)  
 Weight: 0.825 lbs.  
 Mounting: Panel Mounting Strap (x5)  
 Output Signal: ±24VAC  
 500 mA  
 Input Signal: 24VAC, Class II  
 Operating Temp: 14 to 122°F (-10 to 55°C)  
 Ethernet: 10/100 Ethernet TCP/IP  
 Modbus TCP  
 Requires UTP Cable  
 Category 5 or greater

Max number of units (Ethernet): 250  
 Max number of units (RS-485): 31  
 Individual Addresses: 256  
 Group Addresses: 127  
 Pattern Addresses: 72  
 Global Addresses: 256  
 Time Clock: Real-Time Clock (RTC)  
 Astronomical  
 Remote Update: Via USB  
 Web Browser: Setting/Monitor/Control

## LED STATUS DEFINITION



LABEL	COLOR	DEFINITION
POWER	RED	Solid when power is supplied to device
TRANSMIT	GREEN	Solid when signal is being transmitted
RECEIVE	GREEN	Solid when signal is being received
FULL LOAD	ORANGE	Solid when current consumption of 2-Wire system is over maximum capacity (500 mA)
LINE SHORT	RED	Solid when 2-Wire bus wires are shorted
READY	RED	Flickering: Device is in boot-up Solid: Device is ready to use
LOCAL	GREEN	Solid when 2-Wire signal is transmitting
GLOBAL	GREEN	Solid when Global control signal is transmitting
HOST	GREEN	Solid when Host signal is transmitting
ETHERNET	GREEN	Solid when Ethernet connection is made

**\*\*NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**