

Compact Control System

For a substitute, please see CP2E.

Crestron 2-Series Control Systems are the brain of a complete integrated AV or automation solution. Every audio, video, and environmental element of the home, boardroom, classroom, or command center becomes integrated and accessible through the control system. Crestron 2-Series control systems are unmatched for power, performance and scalability, providing the ideal choice for today's demanding control applications.

The CP2 is a compact control system designed for small to medium sized residential and commercial control applications. Three built-in COM ports, eight IR/Serial ports, eight I/O Versiports, and eight isolated relays provide for control of video projectors, plasma displays, switchers, DVD players, screens, lifts, and much more. Additional control ports may be added using Cresnet expansion modules, or by "slaving" an additional CP2 or other control processor.

2-Series Engine

At the heart of the CP2 is the powerful 32-bit Freescale ColdFire® processor. Crestron's exclusive enhanced real-time operating system makes the CP2 the fastest, most reliable control system available.

Cresnet®

Cresnet is the communications backbone for many Crestron touchpanels, keypads, lighting controls, and other devices. The Cresnet bus is a simple, yet flexible 4-wire network that provides rock-solid bidirectional communication for numerous Cresnet devices.

Cresnet Slave Mode

Selectable Cresnet Slave Mode enables the CP2 to be configured as a Cresnet slave device, effectively transforming it into a Cresnet expansion module. Such flexibility can offer a cost-effective solution for system expansion, providing a host of additional control ports in a single module.

> [2-Series engine](#)

> [Cresnet port - master/slave selectable](#)

> [3 Com ports \(RS-232/422/485\)](#)

> [8 IR/serial ports](#)

> [8 Versiport I/O ports](#)

> [8 Low-voltage relay ports](#)

> [Single-space EIA rack-mountable](#)

SPECIFICATIONS

Processor

CPU: 32-bit Freescale ColdFire® Microprocessor

Memory

SDRAM: 32 MB

NVRAM: 256 KB

Flash: 4 MB



Operating System

Real-time, preemptive multi-threaded/multitasking kernel; FAT32 file system with long names; supports **SIMPL™ Windows®** and **SIMPL+®**

Connectors

COM A - C: (3) DB9 male, bidirectional RS-232/422/485 ports; Up to 115.2k baud;

Hardware and software handshaking support;

All ports support **C2N-NPA8** Network Poll Accelerator

INFRARED-SERIAL OUTPUT A - H: (8) 2-pin 3.5mm detachable terminal blocks, IR/Serial output ports;

IR output up to 1.2 MHz;

1-way serial TTL/RS-232 (0-5 Volts) up to 115.2k baud;

Individual signal generator per port, allowing simultaneous firing of all ports

I/O Versiports 1 - 8: (1) 9-pin 3.5mm detachable terminal block comprising (8) digital input/output or analog input ports (referenced to GND);

Digital Input: Rated for 0-24 Volts DC, input impedance 20k ohms, logic threshold 1.24 Volts DC;

Digital Output: 250mA sink from maximum 24 Volts DC, catch diodes for use with "real world" loads;

Analog Input: Rated for 0-10 Volts DC, protected to 24 Volts DC maximum, input impedance 20k ohms;

Programmable 5 Volts, 2k ohms pull-up resistor per pin

RELAY OUTPUT 1 - 8: (2) 8-pin 3.5mm detachable terminal blocks comprising (8) normally open, isolated relays;

Rated 1 Amp, 30 Volts AC/DC;

MOV arc suppression across contacts

COMPUTER: (1) DB9 female, RS-232 computer console port

NET: (1) 4-pin 5mm detachable terminal block;

Cresnet port, Master/Slave selectable;

Expandable via **C2N-NPA8** Network Poll Accelerator

24VDC: (1) 2.1mm barrel DC power jack, 24 Volt DC power input;

(**PW-2420RU** power supply sold separately);

Passes through to NET port to power Cresnet devices

Reset Buttons

HW-R: Hardware reset (reboots the control system)

SW-R: Software reset (restarts the SIMPL program)

CP2 Compact Control System

LED Indicators

PWR: (1 green) Indicates DC power supplied to unit

NET: (1 yellow) Indicates Cresnet bus activity

MSG: (1 red) Indicates control system has generated an error message

Power Requirements

24 Watts (1 Amp) @ 24 Volts DC (**PW-2420RU** power supply sold separately)

Available Cresnet Power: 26 Watts using **PW-2420RU** (sold separately)

Cresnet Power Usage: 24 Watts (1 Amp @ 24 Volts DC) with no power supply connected to the 24VDC connector

Environmental

Temperature: 41° to 113°F (5° to 45°C)

Humidity: 10% to 90% RH (non-condensing)

Enclosure

Chassis: Steel, black matte powder coat finish

Faceplate: Extruded aluminum, black matte powder coat finish with polycarbonate label overlay

Mounting: Freestanding or 1U 19-inch rack-mountable (adhesive feet and rack ears included)

Dimensions

Height: 1.80 in (4.57 cm);

1.70 in (4.32 cm) without feet

Width: 17.03 in (43.24 cm);

19.0 in (48.26 cm) with ears

Depth: 6.66 in (16.91 cm)

Weight

3.54 lbs (1.59 kg)

AVAILABLE ACCESSORIES

PW-2420RU: 50 Watt Regulated Universal Power Supply

C2N-HBLOCK: Cresnet Network Distribution Block

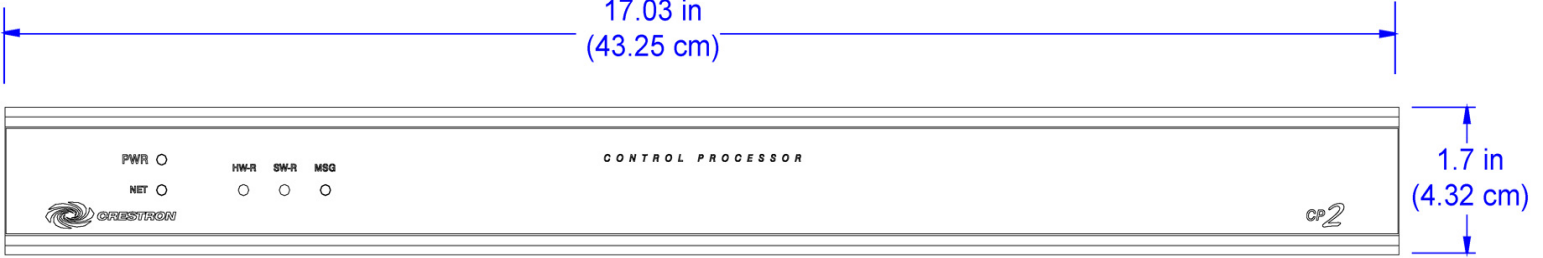
CNSP-XX: Custom Serial Interface Cable

IRP2: IR Probe

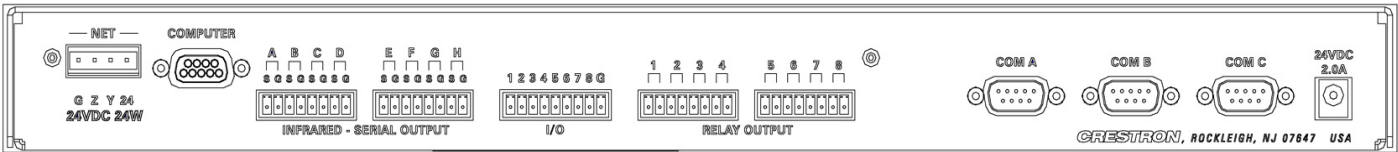
CP2 Compact Control System

Front

17.03 in
(43.25 cm)



Back



Top

6.64 in
(16.86 cm)

