

## Compact Control System with Ethernet

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 CP2E is a compact Ethernet 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, eight isolated relays, and Ethernet 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" additional control processors such as the CP2.

### 2-Series Engine

At the heart of the CP2E is the powerful 32-bit Freescale ColdFire® processor. Crestron's exclusive enhanced real-time operating system makes the CP2E 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 CP2E 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.

### Ethernet

Crestron pioneered the IP-based control system to harness the vast possibilities of Ethernet and the Internet for remote control, monitoring, programming, and diagnostics. The CP2E is designed to deliver the world's most advanced IP control solution with full-duplex 10/100 Ethernet, built-in Web server and email client, and support for both static and dynamic IP addressing.

### e-Control@2

Crestron's award-winning e-Control 2 XPanel solutions offer the most flexible range of IP control possibilities available. Using a Windows® computer or CE/PocketPC™ PDA device, e-Control 2 provides an amazing control GUI that looks and behaves just like a Crestron Isys® touchpanel.

### RoomView™

Every Ethernet-enabled 2-Series control system works directly with Crestron's exclusive RoomView Help Desk software for the industry's most comprehensive facility-wide asset management solution.

### SNMP

Built-in SNMP support enables network management of Crestron control systems using third-party SNMP software. As an alternate or supplement to RoomView, SNMP allows full control and monitoring from the IT Help Desk or NOC in a format that's familiar to IT personnel.



### SSL

All Ethernet-enabled 2-Series control systems support SSL (Secure Sockets Layer), the industry standard for protecting sensitive network communications.

> 2-Series engine | Dual-bus architecture

> Cresnet port - master/slave selectable

> 10/100 Ethernet | SSL encryption

> e-Control 2 and RoomView enabled | SNMP support

> 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+®

### Ethernet

10/100BaseT, auto-negotiating, full/half duplex, static IP or DHCP/DNS, SSL, TCP/IP, UDP/IP, CIP, SMTP, SNMP, built-in Web server and e-mail client; supports Crestron e-Control@2 XPanel and RoomView™ applications

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## 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  
**LAN**: (1) 8-wire RJ45 with 2 LED indicators;  
10/100BaseT Ethernet port;  
Green LED indicates link status;  
Yellow LED indicates Ethernet activity  
**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)

## 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  
**LNK**: (1 red) Indicates a valid connection on LAN port  
**ACT**: (1 red) Indicates activity on LAN port

## 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)

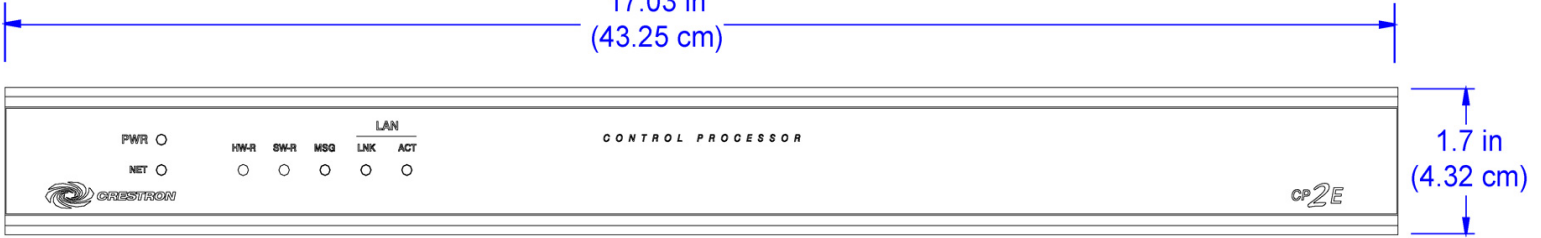
## AVAILABLE ACCESSORIES

**PW-2420RU**: 50 Watt Regulated Universal Power Supply  
**C2N-HBLOCK**: Cresnet Network Distribution Block  
**CNSP-XX**: Custom Serial Interface Cable  
**IRP2**: IR Probe

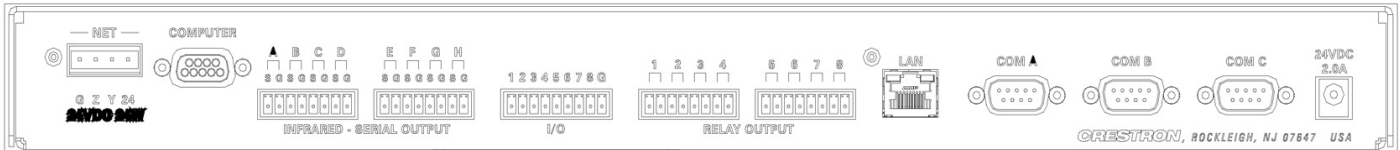
# CP2E Compact Control System with Ethernet

## Front

17.03 in  
(43.25 cm)



## Back



## Top

6.64 in  
(16.86 cm)

