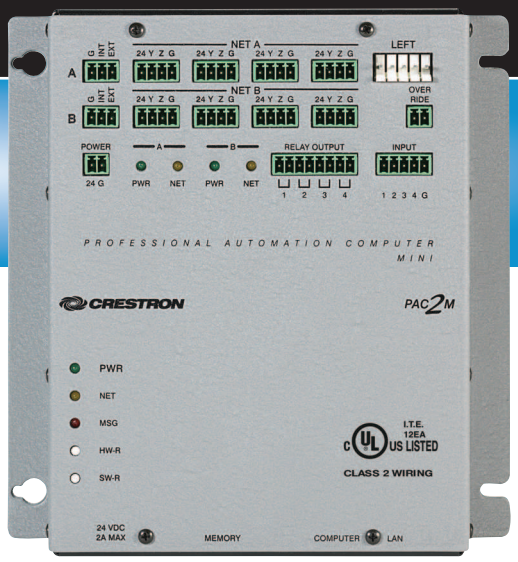
Crestron PAC2M

Professional Automation Mini Control System



- > 2-Series control engine
- > MMC memory expansion card slot
- > Built-in Cresnet distribution and hub/repeater
- > 10/100 Ethernet capable | SSL encryption
- > e-Control 2, SNMP, & RoomView support
- > 4 relay and 4 digital input control ports
- > Occupies a single module space in any CAEN enclosure
- > Surface-mountable without an enclosure
- > Configurable via Crestron D3 Pro software
- > Requires external power supply

The PAC2M is a compact, low-cost alternative to the PAC2 designed for small lighting and automation applications. At half the size of a PAC2, the PAC2M is perfect for apartments and smaller homes as well as individual meeting rooms and lecture halls.

2-Series Control System—Built upon Crestron's reliable 2-Series control engine, the PAC2M is extensively programmable using Crestron's suite of powerful development software and vast database of drivers and software modules. The PAC2M works seamlessly with Crestron's entire line of lighting dimmers and shade controls, keypads and touchpanels, thermostats, wireless gateways, and expansion modules.

System Integration—The PAC2M provides for the integration of non-Crestron devices and subsystems through a host of control interfaces. Four isolated relays and four digital input ports are built in to accommodate motion sensors, contactors, door strikes, and other low-voltage controls. Additional relays, I/O ports, serial COM ports, DTMF interfaces, and shade controllers can be added using Crestron expansion modules at any location throughout a commercial or residential facility.

Modular Enclosure Installation—The PAC2M is designed to install in a CAEN or CAENIB automation enclosure and provide a direct bus to a cabinet full of CLX-Series lighting control modules. It is also suitable of surface mount installation without an enclosure where allowed. Every Crestron lighting system is completely modular and scalable, allowing virtually unlimited configuration and expansion flexibility.

Cresnet® Distribution—Cresnet is the communications backbone for Crestron lighting modules, wall box dimmers, thermostats, keypads, and many other devices. This flexible 4-wire bus streamlines the wiring of a complete Crestron lighting system. The PAC2M provides connectivity for numerous Cresnet devices on multiple homeruns via 8 separate Cresnet ports. Its built-in Cresnet hub provides 2 isolated segments, each supporting 3000 feet of cabling and approximately 25 Cresnet devices. The Cresnet ports are arranged into 2 separate power groups providing a clean, flexible 24 Volt DC power distribution solution. An external power supply is required (sold separately).

Ethernet and e-Control®2—Built-in 10/100 Ethernet facilitates secure high-speed network connectivity, enabling extensive capabilities for remote system maintenance and control, and providing an interface to other Crestron control systems. Native features include a built-in email client to report system troubles and other functions to the homeowner or service company via instant email notification. An onboard Web server provides the foundation for Crestron's exclusive e-Control 2 Xpanel technology, providing secure IP-based remote control using any Windows® computer or CE/PocketPC™ PDA device.

RoomView® and SNMP—For large facilities utilizing multiple PAC2M's and other control systems, Crestron's exclusive RoomView Help Desk software delivers a comprehensive solution for remote monitoring and asset management. Also, built-in SNMP support enables similar capability using third-party network management software, allowing full control and monitoring from the IT Help Desk or NOC in a format that's familiar to IT personnel.

Override—An override input is provided to allow an external contact closure to bypass the PAC2M and activate a preset override state in each connected lighting module.

Memory Expansion—A memory card slot allows for easy expansion of the PAC2M's internal memory using any MMC-compatible memory card up to 1 GB.

D3 Pro™ Software—Crestron D3 Pro software eliminates the need for custom programming, providing a complete design, development, and documentation solution for the lighting professional.

SPECIFICATIONS

Processor

CPU: 32-bit Freescale ColdFire® Microprocessor

Memory

SDRAM: 32 MB
NVRAM: 256 KB
Flash: 8 MB
Memory Card: expandable up to 1 GB using MMC compatible card (not included)

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

Connectors

LEFT: (1) 5-pin 0.156 inch header, module interconnect port, connects to CLX-Series lighting control modules using interconnect cables provided

Cresnet Hub/Repeater: Cresnet data and power distribution

NET A – B: (8) 4-pin 3.5mm detachable terminal blocks
Comprise (4) Cresnet ports (paralleled) per each of (2) segments

G/INT/EXT A – B: (2) 3-pin 3.5mm detachable terminal blocks
Cresnet power selection connectors for each segment
Connect to external Cresnet power supply, or to "internal" power source via jumpers, to power Cresnet devices connected to the NET ports;
Maximum Load per Segment using external supply: 75 Watts (3.125 Amps @ 24 Volts DC);
Maximum Total Load using "internal" source: 45 Watts (1.88 Amps @ 24 Volts DC)

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OVERRIDE: (1) 2-pin 3.5mm detachable terminal block
Input from external contact closure to trigger the preset Override state in CLX-Series modules connected to the module interconnect port;
Maximum Input: 10mA at 5 Volts

POWER: (1) 2-pin 3.5mm detachable terminal block
24 Volt DC power input, 2 Amp maximum
Paralleled with 24VDC input, powers processor and provides "internal" power source for modules and Cresnet devices

RELAY OUTPUT 1 – 4: (1) 8-pin 3.5mm detachable terminal block
Comprises (4) normally open, isolated relays
Rated 1 Amp, 30 Volts AC/DC, MOV arc suppression across contacts

INPUT 1 – 4: (1) 5-pin 3.5mm detachable terminal block, comprises (4) digital inputs
Rated for 0-24 Volts DC, referenced to GND
Input Impedance: 2.2k ohms pulled up to 5 Volts DC
Logic Threshold: 2.5 Volts DC nominal

24VDC: (1) 2.1mm barrel DC power jack, 24 Volt DC power input, 2 Amp maximum
Paralleled with POWER input, powers processor and provides "internal" power source for modules and Cresnet devices

MEMORY: (1) MMC compatible card slot, accepts multimedia memory card up to 1 GB

COMPUTER: (1) USB Type B female, USB 1.1 computer console port (cable included)

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

Reset Buttons

HW-R: Hardware reset (reboots the control system)
SW-R: Software reset (restarts the SIMPL program)

LED Indicators

NET A – B: (yellow x2) Indicate Cresnet communications on each respective segment
PWR A – B: (2 green) Indicate 24 Volts DC power present at each respective segment
PWR: (1 green) Indicates power supplied to unit via 24VDC or POWER input
NET: (1 yellow) Indicates Cresnet bus activity
MSG: (1 red) Indicates control system has generated an error message

Power Requirements

5 Watts (0.21 Amps) @ 24 Volts DC (Power supply sold separately)

Available Cresnet Power: 45 Watts using PW-2420RU or larger (sold separately)

Environmental

Temperature: 41° to 113°F (5° to 45°C)
Humidity: 10% to 90% RH (non-condensing)

Enclosure

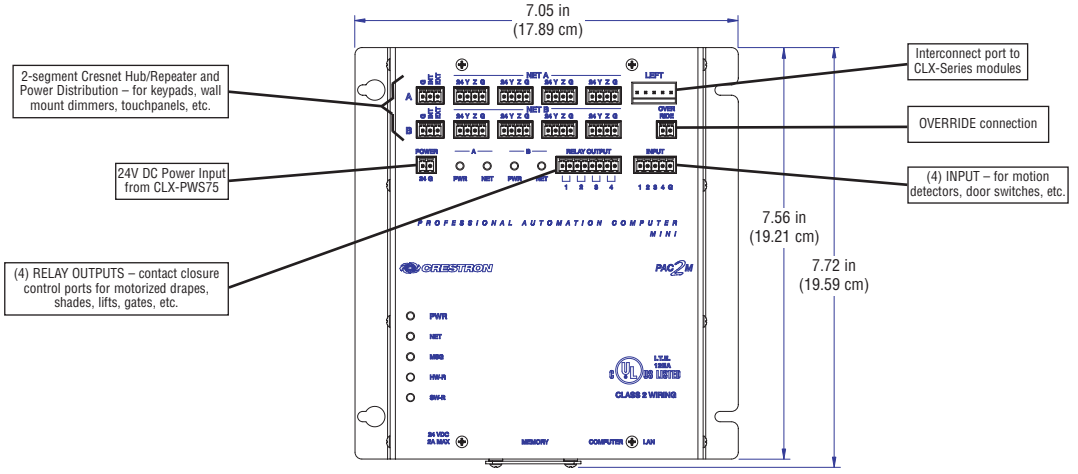
Black and gray metal, surface mount box with (2) integral mounting flanges
Occupies 1 module space in a single-width CAEN enclosure, or 1 left side module space in a double-width CAEN enclosure

Dimensions

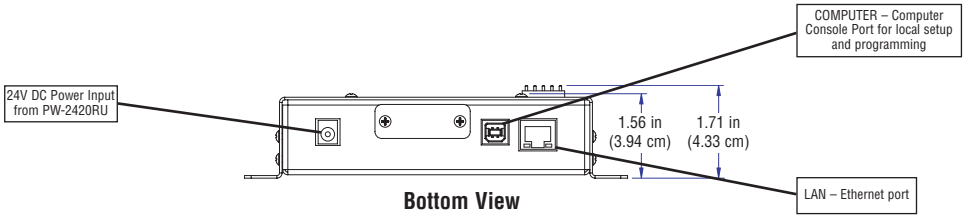
Height: 7.72 in (19.59 cm)
Width: 7.05 in (17.89 cm)
Depth: 1.71 in (4.33 cm)

Weight

2.14 lbs (0.97 kg)



Front View



Bottom View

AVAILABLE ACCESSORIES

CAEN or CAENIB
Automation Enclosures

CLX-PWS75
75 Watt Cresnet Power Supply Module

PW-2420RU
50 Watt Power Pack

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Specifications subject to change without notice. Doc.4839 12/07