

## 4-Series™ Control System



- Compact 4-Series™ control system with 1 GB SDRAM and 8 GB flash memory
- Embedded 4-Series multicore CPU processor
- iPhone®, iPad®, and Android™ device control app support
- XPanel computer and web based control
- Modular programming architecture (optional)
- Onboard IR/serial, COM, digital input, relay, Cresnet® network, and Ethernet control ports
- USB OTG (On-the-Go) port
- Crestron Fusion® software room monitoring and scheduling
- Crestron XiO Cloud® service provisioning and management
- Enterprise-class network security and authentication
- SNMP V3 remote IT management support
- Native BACnet network/IP support
- Installer setup via software, web browser, or cloud
- IPv6 ready
- Integrates with Apple® HomeKit® technology
- PoE (Power over Ethernet) network power
- Compact, stackable IFE micro form factor
- Surface or DIN rail mountable
- Available rack mount and pole mount options

The Crestron® RMC4 provides a secure, high-performance, cost-effective control processor and interface for controlling and monitoring for a single display device, a small AV system, lighting and shading, climate control, security, energy management, and many other specialized applications. A small form factor allows the RMC4 to be placed just about anywhere, with the option to attach it to a flat surface or DIN rail using the included mounting bracket. The RMC4 can fit easily behind a video display or above a projector, and provides enough control ports to control the display device along with a screen or lift.

### 4-Series Control Engine

4-Series™ control systems come equipped with an upgraded multicore CPU, delivering a sizable speed and performance increase compared to all Crestron 3-Series® control processors. The improved performance allows 4-Series control systems to handle the increasing demands of an advanced automated system. Crestron 4-Series delivers a dynamic and secure control system platform capable of managing a room full of disparate technologies.

Reliable networking and IP control afford seamless integration with other systems and devices, with add-on control capability using Crestron touch screens, wireless remotes, and mobile device apps, as well as remote management through Crestron Fusion® software and the Crestron XiO Cloud® service.

### Modular Programming Architecture

The RMC4 is designed to run a single program out of the box. The optional modular programming architecture (MPA) add-on allows the RMC4 to run up to ten programs simultaneously.<sup>1</sup> Programmers can develop and run independent, device-specific programs, enabling each program to be optimized for a specific function and allowing for changes to be made to one program without affecting the whole system.

### Onboard Control Ports

Through a full complement of onboard control ports, the RMC4 can be integrated with a wide variety of audio, video, lighting, motorized shades, thermostats, door locks, sensors, security systems, and other equipment.

- Ethernet provides an interface for connecting to the building network and controlling Crestron AV switchers, audio processors, power controllers, and other IP controllable equipment.
- Cresnet® network connectivity provides support for Crestron lighting dimmers, motorized shades, sensors, thermostats, keypads, and more.<sup>2</sup>
- Onboard RS-232, IR, relay, and digital input control ports enable direct integration with all types of third-party equipment.

Expanded connectivity can be provided to the RMC4 via Crestron [control port expansion modules](#), [Ethernet to Cresnet bridges](#), [wired Ethernet I/O extenders](#), or [Wi-Fi® network I/O extenders](#) (all sold separately).

### Crestron Fusion Room Monitoring and Scheduling

Crestron Fusion provides an integrated platform for creating smart buildings that save energy and enhance worker productivity. As part of a complete managed network in a corporate enterprise, college campus, convention center, or any other facility, the RMC4 works with Crestron Fusion to enable remote scheduling, monitoring, and control of rooms and technology from a central help desk or mobile app. It also enables organizations to reduce energy consumption by tracking real-time usage and automating control of AV, lighting, shades, and HVAC. For more information about Crestron Fusion, visit [www.crestron.com/fusion](http://www.crestron.com/fusion).

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### Crestron XiO Cloud Provisioning and Management

4-Series control systems leverage the power and flexibility of Crestron XiO Cloud services, enabling users to remotely provision, monitor, and manage Crestron devices across an enterprise network. Crestron XiO Cloud can be used to configure and load programs to the control system before it is received, making the control system fully functional as soon as it is connected to the network. Crestron XiO Cloud is built on the Microsoft® Azure® software platform and utilizes Microsoft's industry leading Azure IoT Hub technology. Crestron XiO Cloud enables installers and IT managers to deploy and manage thousands of devices in the time it previously took to manage just one. Unlike other virtual machine based cloud solutions, Azure services provide unlimited scalability to suit the ever growing needs of an enterprise. For more information, visit [www.crestron.com/xiocloud](http://www.crestron.com/xiocloud).

### Enhanced Enterprise-Grade Security

The RMC4 is an enterprise-class control processor that can be deployed across hundreds of spaces and set up easily using a web browser, Crestron Toolbox™ software, or Crestron XiO Cloud. It employs standard network security protocols, including 802.1X network access control, Active Directory® service authentication, SSH, TLS, and HTTPS to ensure reliability and compliance with your organization's IT policies.

The RMC4 is configured to meet Crestron's enhanced security standards right out of the box. The RMC4 ships with authentication enabled and requires that an administrator account be created before access is granted to device configuration and control interfaces.

### SNMP V3 Support

Built-in SNMP V3 support enables integration with third-party IT management software, allowing network administrators to manage and control Crestron systems on the network in an IT-friendly format.

### BACnet Support

Native support for the BACnet communication protocol provides a direct interface to third-party building management systems over Ethernet, simplifying integration with HVAC, security, and other systems. Using BACnet, each system runs independently but communicates together on one platform.<sup>3</sup>

### Apple HomeKit Integration

The RMC4 supports integration with an Apple® HomeKit® technology system. Once the RMC4 is paired with a HomeKit system via [SIMPL](#) programming, a Crestron [TSR-310](#) can be used to control supported Apple devices. A pairing QR code is affixed to the RMC4 that makes it easy to pair the control system directly to the Apple Home app.<sup>4</sup>

### PoE Network Powered

Using PoE technology, the RMC4 gets its operating power directly through the LAN wiring, eliminating the need for a local power supply or dedicated power wiring. A PoE injector ([PWE-4803RU](#)) simply connects in line with the LAN cable at a convenient location. Crestron PoE switches ([CEN-SW-POE-5](#) or [CEN-SWPOE-16](#)) may also be used to provide a total networking solution with built-in PoE. All PoE injectors and switches are sold separately.

### Integrator Friendly Enclosure

The RMC4 features the Crestron IFE form factor, a compact Integrator Friendly Enclosure design that fits almost anywhere and enables a variety of installation options. Its shape allows multiple RMC4 and other IFE compliant devices to be stacked together. Using the included mounting bracket, it can be fastened to a flat surface or snapped onto a standard DIN rail. Rack mount and pole mount kits are also available (sold separately).

## 4-Series™ Control System

### Specifications

#### Control Engine

Crestron® 4-Series™; real-time, preemptive multi-threaded/multitasking kernel; Transaction-Safe Extended FAT file system; supports up to 10 simultaneously running programs (license required<sup>1</sup>)

#### Communications

<b>Ethernet</b>	100 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, industry-standard TCP/IP stack, UDP/IP, CIP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), FIPS 140-2 compliant encryption, IEEE 802.1xX, SNMP, BACnet and IP <sup>3</sup> , IPv4 or IPv6, Active Directory® service authentication, HTTPS web server, HTTPS web browser setup and Crestron XiO Cloud® client, SMTP email client
<b>Cresnet® Network</b>	Cresnet master mode
<b>USB</b>	Supports computer console and USB mass storage class devices via the front panel USB OTG (On-the-Go) device port
<b>RS-232/422/485</b>	For 2-way device control and monitoring, supports RS-232, RS-422, or RS-485 up to 115.2k baud with hardware and software handshaking
<b>IR/Serial</b>	Supports 1-way device control via infrared up to 1.2 MHz or serial TTL/RS-232 (0–5 V) up to 115.2k baud

#### Memory

<b>SDRAM</b>	1 GB
<b>Flash</b>	8 GB
<b>External Storage</b>	Supports USB storage devices up to 1 TB

#### Connectors

<b>USB-OTG</b>	(1) USB Type Micro-AB female; USB OTG port for computer console and USB mass storage devices
<b>LAN PoE</b>	(1) 8-pin RJ-45 connector, female; 100BASE-T Ethernet port; PoE (Power over Ethernet) PD (Powered Device) port
<b>NET</b>	(1) 3-pin 3.5 mm detachable terminal block; Cresnet master port; Provides data only (no power) <sup>2</sup>

#### DIGITAL IN 1–2

(1) 3-pin 3.5 mm detachable terminal block; Comprises (2) digital inputs (referenced to GND); Voltage Range: Rated for 0–24 VDC; Input Impedance: 2.2k Ω pulled up to 5 V; Logic Threshold: >2.0 V low/0 and <1.1 V high/1

#### RELAY 1–2

(1) 4-pin 3.5 mm detachable terminal block; Comprises (2) normally open, isolated relays; Rated 1 A, 30 VAC/VDC; MOV arc suppression across contacts

#### IR 1–2

(1) 4-pin 3.5 mm detachable terminal block; Comprises (2) IR output ports; IR output up to 1.2 MHz; 1-way serial TTL/RS-232 (0–5 V) up to 115.2k baud; IRP2 IR emitters sold separately

#### COM

(2) 5-pin 3.5 mm detachable terminal blocks; Bidirectional RS-232/422/485 port; Up to 115.2k baud; Hardware and software handshaking support

#### G

(1) 6-32 screw; Chassis ground lug

#### Controls and Indicators

#### PWR

(1) Bicolor green/amber LED, indicates operating power is present; Amber indicates that the device is booting and is not yet ready to operate; Green indicates that the device is ready to operate

#### NET

(1) Amber LED, indicates communication with Cresnet devices

#### MSG

(1) Red LED, indicates control processor has generated an error message

#### HW-R

(1) Recessed push button, initiates hardware reset

#### SW-R

(1) Recessed push button, initiates software reset

#### LAN PoE

(1) Green and (1) Amber LEDs; Green LED indicates Ethernet link status and connection speed; Amber LED indicates Ethernet activity

#### Power

**Power over Ethernet** IEEE 802.3at Type 1 (802.3af compatible) Class 0 (12.95 W) PoE Powered Device

**Power Consumption** 6.5 W

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**NOTE:** The RMC4 does not use or supply any Cresnet power.

### Environmental

<b>Temperature</b>	32 to 104 °F (0 to 40 °C)
<b>Humidity</b>	10% to 90% RH (noncondensing)
<b>Heat Dissipation</b>	22 BTU/hr

### Construction

<b>Enclosure</b>	IFE micro form factor, black and blue plastic
<b>Mounting</b>	Freestanding, stackable, surface mount, or 35 mm DIN EN 60715 rail mount; Occupies 8 DIN module spaces (144 mm); Surface/DIN rail mounting bracket included, optional rack mount and pole kits sold separately

### Dimensions

<b>Height</b>	1.35 in. (34 mm); 1.77 in. (45 mm) with bracket
<b>Width</b>	5.04 in. (128 mm); 5.36 in. (136 mm) with bracket
<b>Depth</b>	2.86 in. (73 mm); 3.33 in. (85 mm) with bracket

### Weight

6.4 oz (180 g)

### Compliance

**Regulatory Model: RMC4;**  
UL® Listed for US & Canada, CE, IC, FCC Part 15 Class B digital device

### Model

**RMC4**  
4-Series™ Control System

### Available Accessories

**C2N-IO**  
Control Port Expansion Module

**C2N-HBLOCK**  
Multitype Cresnet® Network Distribution Block

**CEN-IO-COM-102**  
Wired Ethernet I/O Extender with 2 COM Ports

**CEN-IO-DIGIN-104**  
Wired Ethernet I/O Extender with 4 Digital Inputs

**CEN-IO-IR-104**  
Wired Ethernet I/O Extender with 4 IR Ports

**CEN-IO-RY-104**  
Wired Ethernet I/O Extender with 4 Relay Ports

**CEN-IO-COM-202**  
Wi-Fi® Network I/O Extender with 2 COM ports

**CEN-IO-DIGIN-204**  
Wi-Fi® Network I/O Extender with 4 Digital Inputs

**CEN-IO-IR-204**  
Wi-Fi® Network I/O Extender with 4 IR Ports

**CEN-IO-RY-204**  
Wi-Fi® Network I/O Extender with 4 Relay Ports

**CEN-SWPOE-16**  
16-Port Managed PoE Switch

**CEN-SW-POE-5**  
5-Port PoE Switch

**CNSP-XX**  
Custom Serial Interface Cable

**CNTBLOCK**  
Cresnet® Network Distribution Block

**CRESTRON-APP**  
Crestron® App for iPhone® and iPod touch® Devices

**CRESTRON-APP-ANDROID**  
Crestron® App for Android® OS

**CRESTRON-APP-PAD**  
Crestron® App for iPad® Device

**DIN-CENCN-2**  
Ethernet to Cresnet® Network Bridge

**DIN-CENCN-2-POE**  
Ethernet to Cresnet® Network Bridge with PoE

**IRP2**  
IR Emitter with Terminal Block Connector

**PLMK-IFE-101**  
IFE Pole Mount Kit

**PWE-4803RU**  
PoE Injector

**RMK-IFE-101**  
IFE Rack Mount Kit

**SW-3SERIES-BACNET-50+**  
BACnet Network/IP Support for 3-Series® and 4-Series Control Processors

**SW-FUSION-C-3**  
Crestron Fusion® Cloud; 250 rooms; 3-year service, support, and updates

**SW-FUSION-P-L**  
Crestron Fusion® On-premises; Unlimited rooms; lifetime service, support, and updates