RMC4

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*
- *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 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.[1] 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.[2]
- 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.

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XiO Cloud Provisioning and Management

4-Series control systems leverage the power and flexibility of XiO Cloud services, enabling users to remotely provision, monitor, and manage supported Crestron and third-party devices across an enterprise network. 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. XiO Cloud is built on the Microsoft® Azure® software platform and utilizes Microsoft's industry leading Azure IoT Hub technology. 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.

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.[3]

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.[4]

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).

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RMC4

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[1])

Communications

Ethernet	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[3], IPv4 or IPv6, Active Directory® service authentication, HTTPS web server, HTTPS web browser setup and XiO Cloud® client, SMTP email client
Cresnet® Network	Cresnet master mode
USB	Supports computer console and USB mass storage class devices via the front panel USB OTG (On-the-Go) device port
RS-232/422/485	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
IR/Serial	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

SDRAM	1 GB
Flash	8 GB
External Storage	Supports USB storage devices up to 1 TB

Connectors

USB-OTG	(1) USB Type Micro-AB female; USB OTG port for computer console and USB mass storage devices
LAN PoE	(1) 8-pin RJ-45 connector, female; 100BASE-T Ethernet port; PoE (Power over Ethernet) PD (Powered Device) port
NET	(1) 3-pin 3.5 mm detachable terminal block; Cresnet master port; Provides data only (no power)[2]
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	(1) 5-pin 3.5 mm detachable terminal block; 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

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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

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

Environmental

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

Construction

Enclosure	IFE micro form factor, black and blue plastic
Mounting	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

Height	1.35 in. (34 mm); 1.77 in. (45 mm) with bracket
Width	5.04 in. (128 mm); 5.36 in. (136 mm) with bracket
Depth	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

For supported accessories, visit the RMC4 product page at www.crestron.com.

Notes:

1. Enabling Modular Programming Architecture (MPA) on the RMC4 requires the purchase of one SW-RMC3-10PROG license. The license enables support for running up to 10 simultaneous programs on a single RMC4. The license is not required if only one program is run on the RMC4. To obtain a license for theRMC4, complete the "Request for SW-RMC3-10PROG License" form. For questions, contact license@crestron.com.
2. The NET (Cresnet) port on the RMC4 is a 3-pin connector which provides connectivity for Cresnet data only, not power. The Cresnet power conductor does not terminate to the RMC. An external Cresnet power supply is required to provide power for Cresnet devices.
3. A BACnet and IP license is required. A free license is available to support up to 50 BACnet objects on a single 4-Series control system. Enabling support for more than 50 BACnet objects requires the purchase of one SW-3SERIES-BACNET-50+ license. The RMC4 supports a maximum of 500 BACnet objects when dedicated for BACnet use only. Actual capabilities are contingent upon the overall program size and complexity. To obtain the license, visit www.crestron.com/bacnetlicense.
4. This feature is only available when using the TSR-310. Other Crestron touch screens, handheld remotes, and keypads are not supported. For these interfaces, traditional IR or CEC control must be used to control supported Apple devices.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or by calling 855-263-8754.

This product is covered under the Crestron standard limited warranty. Refer to www.crestron.com/warranty for full details.

The specific patents that cover Crestron products are listed online at patents.crestron.com.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

Specifications are subject to change without notice.

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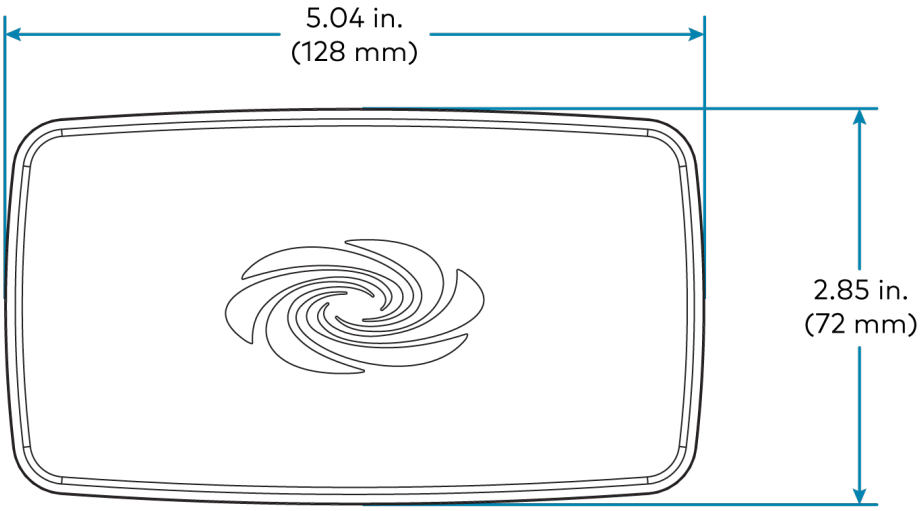

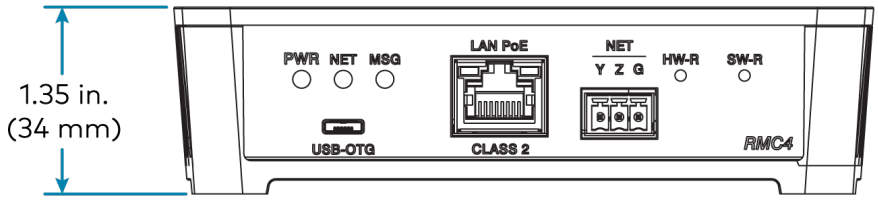

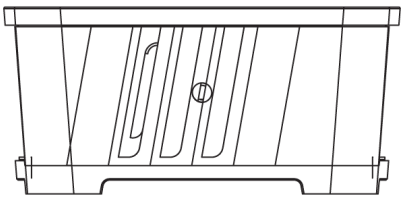

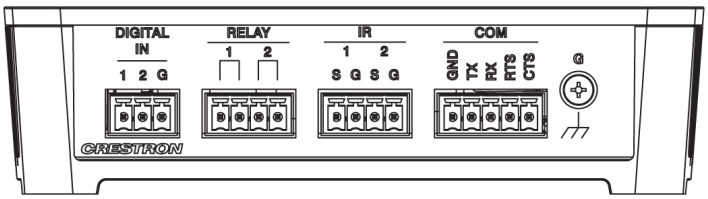

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