

Integrated Wireless Control System

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 MC2W is a compact 2-Series control system with integrated 1-way RF gateway. Equipped with two built-in COM ports, four IR/Serial ports, four I/O Versiports, and four isolated relays, the MC2W is a great single-box professional RF wireless control solution for boardrooms, lecture halls, home theaters, churches, museums, and more.

Integrated RF Wireless

The MC2W's built-in RF gateway is switchable between 418MHz and 433MHz for compatibility with any Crestron 1-way RF wireless touchpanel or handheld remote.

IR Wireless Option

When equipped with an optional CNXRMRD IR receiver, the MC2W allows for IR wireless control using any Crestron IR wireless touchpanel, or a third-party universal IR remote.

2-Series Engine

At the heart of the MC2W is the powerful 2-Series engine. Our exclusive enhanced real-time operating system makes the MC2W 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 MC2W 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

> 2 Com ports (RS-232/422/485)

> 4 IR/serial ports

> 4 Versiport I/O ports

> 4 Low-voltage relay ports

> Built-in 1-way RF wireless gateway

> IR wireless compatible using CNXRMRD

> External power pack included



> Single-space EIA rack-mountable

SPECIFICATIONS

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+®

Wireless

RF Receiver: Selectable 433.92 (433) or 418 MHz 1-way RF

Device Compatibility, 433 MHz: Supports up to 256 WPR-48 or CNRFHT remotes, or up to 16 ST-1550C or ST-1700C touch panels

Device Compatibility, 418 MHz: Supports up to 256 WPR-48 remotes, or up to 16 ML-600 or MT-1000C remotes

Range: Up to 300 feet typical, subject to site-specific conditions and individual device capabilities ^[1]

Minimum distance allowed between MC2Ws/gateways is 50 feet

Connectors

COM A - B : (2) 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 - D : (4) 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 - 4 : (1) 5-pin 3.5mm detachable terminal block comprising (4) 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;

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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 - 4 : (1) 8-pin 3.5mm detachable terminal block comprising (4) normally open, isolated relays;

Rated 1 Amp, 30 Volts AC/DC;

MOV arc suppression across contacts

IR IN: (1) 3-pin 3.5mm detachable terminal block;

For connection of the CNXRMIRD IR Receiver (sold separately);

Allows IR wireless control from Crestron or third-party remotes using RC-5 IR commands

ANTENNA: (1) BNC female, connection for supplied antenna or optional high-performance antenna (CNANT sold separately);

Impedance: 50 Ohms

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

NET: (1) 4-pin 3.5mm 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 pack included);

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

SIG: (1 red) Indicates RF communication with a Crestron transmitter

Power Requirements

Power Pack: 2.0 Amps @ 24 Volts DC;

100-240 Volts AC, 50/60 Hz power pack, model PW-2420RU included

Available Cresnet Power: 38 Watts using PW-2420RU power pack (included)

Cresnet Power Usage: 12 Watts (0.5 Amp @ 24 Volts DC) using Cresnet network power (no power pack connected to the 24VDC connector)

Environmental

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

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

Enclosure

Chassis: Metal, black matte finish

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

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

Dimensions

Height: 1.80 in (46 mm);

1.70 in (44 mm) without feet

Width: 17.03 in (433 mm);

19.0 in (483 mm) with ears

Depth: 9.07 in (231 mm)

Weight

4.3 lb (2.0 kg)

Available Models

MC2W: Compact Control System with Built-in RF Gateway

Included Accessories

PW-2420RU Power Pack, Desktop, 24VDC, 2A (50 Watts), Regulated, US/International [Included Quantity: 1]

Available Accessories

C2N-HBLOCK: Multi-type Cresnet Distribution Block

CNANT: High Performance Extension Antenna for use with CNRFGWA, CNRFGWA-418 and MC2W

CNSP-XX: Custom Serial Interface Cable

CNXRMIRD: IR Receiver

IRP2: IR Emitter Probe w/Terminal Block Connector

Notes:

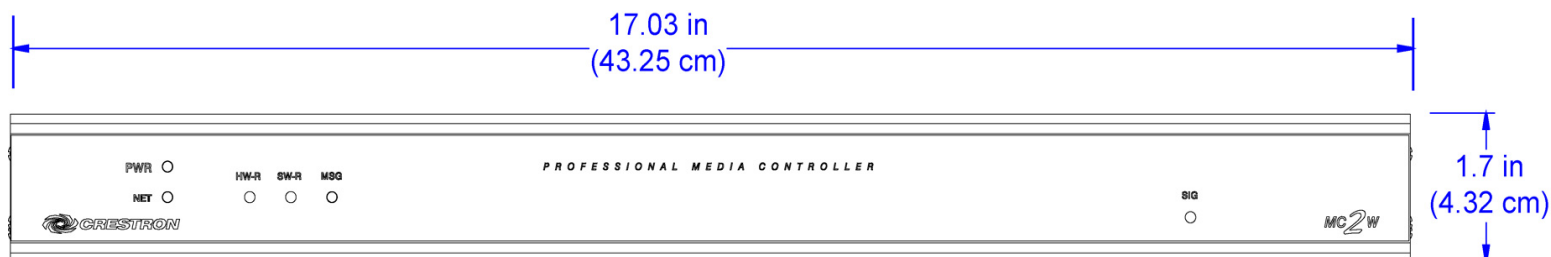
1. For proper gateway placement and antenna orientation, consult the "Best Practices for Installation and Setup of Crestron RF Products" Reference Guide.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

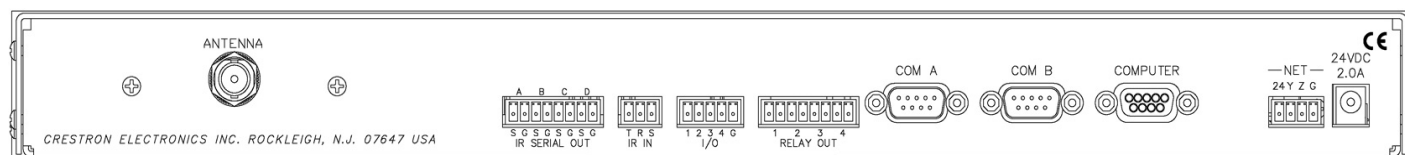
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