

# Crestron MC2E Ethernet Control System



The MC2E is a low-cost 2-Series Ethernet control system that features a built-in Web server and supports a wide variety of control formats, including IR, RS-232, and TCP/IP.

**Power**—The heart of the MC2E is the 2-Series processor, built on Motorola's 32-bit, 257 MIPS ColdFire® technology. The MC2E features the same processor as the higher end PRO2 and AV2, with 36MB of onboard memory, allowing the MC2E to run the most sophisticated control applications.

**Versatility**—I/O options include 2 bi-directional COM ports with built-in serial drivers for controlling devices via RS-232/RS-422/RS-485; 4 IR/serial ports, programmable with the thousands of device drivers available in the Crestron databases; 4 Versiports configurable for analog input or digital I/O; 4 isolated relays for controlling contact closure devices; 1 Cresnet port for seamless integration with Crestron touchpanels and network control modules; 1 10/100 Ethernet port; and 1 IR input designed to work with the CNXRMIRD IR detector and any universal RC-5 IR remote, for low-cost control of AV devices.

**e-Control 2™ Technology**—The MC2E features a built-in Web server with SSL, so users can control devices from any computer on the LAN or WAN. Programmers can design custom Web pages using Crestron VisionTools Pro-e®, eliminating the need to purchase third-party Web page design software.

In fact, with Crestron e-Control 2® XPanel technology, Web pages have the same look and feel as TPS touchpanel pages, with the same outstanding

runtime performance. e-Control 2 also generates stand-alone XPanel programs that users can launch from their Windows desktop or from Windows PocketPC 2002 devices and Windows Tablet PCs.

The MC2E supports all Crestron e-Control Power Applications, including RoomView™ software. With RoomView, organizations can monitor multiple room AV controllers on an integrated Ethernet network, in real time, from any network PC.

- > 2-Series processor built on Motorola's 32-bit 257 MIPS ColdFire® technology
- > 2 bi-directional COM ports
- > 4 IR/serial ports
- > 4 Versiports
- > 4 isolated relays
- > 1 IR input compatible with universal IR remotes
- > 10/100BaseT full duplex Ethernet port
- > 1 Cresnet port
- > Built-in Web server for remote browser/XPanel control
- > DHCP/DNS enabled with SSL (Secure Sockets Layer)
- > PW-2410 power supply included

# Crestron MC2E Ethernet Control System

## Processor

**CPU:** 32-bit Motorola ColdFire® 5407 Microprocessor

**Processing Speed:** 257 MIPS (Dhrystone 2.1)

## Memory

4MB Flash  
32MB SDRAM  
256KB NVRAM

## Connectors

**COM:** (2) DB9  
2-way RS-232/422/485

**Relays:** (4) 2-pin mini Phoenix  
Normally open, isolated relays  
Rated 1A, 30 Volts AC/DC  
MOV arc suppression across contacts

**I/O Versiports:** (4) 1-pin mini Phoenix  
Digital input/output or analog input  
Digital input: Rated for 0-24 Volts DC; input impedance 20K ohms; logic threshold 1.24 Volts DC  
Analog input: Rated for 0-10 Volts DC, protected to 24 Volts DC maximum; input impedance 20K ohms  
Programmable 5V, 2K ohms pull-up resistor per pin (software reference to GND or closure to GND)

**IR:** (4) 2-pin mini Phoenix  
IR, TTL Level, 1-way RS-232  
Individual signal plus ground per port  
IR output up to 1.2 MHz  
Individual signal generator per port, allowing simultaneous firing of all ports

**IR Receiver:** (1) 3-pin female mini Phoenix  
For connection to the CNXRMIIRD and any universal RC-5 IR remote

**Computer:** (1) DB9  
RS-232 connection to a PC

**Cresnet:** (1) 4-pin mini Phoenix

**Ethernet:** (1) RJ-45  
10/100BaseT full duplex

**Power:** 24 Volts DC power jack (PW2410RU power supply included)

## Reset Buttons

**HW-R:** Hardware reset (reboots the control system)

**SW-R:** Software reset (reloads the logic program)

## LED Indicators

**PWR:** Green power LED

**NET:** Yellow network activity LED

**ERR:** Red error LED

## Power Requirements

10 Watts (0.21 Amps @ 24 Volts DC)  
PW-2410RU power supply included  
Available Cresnet power: 14 Watts

## Dimensions

**Height:** 1.7 in (4.32 cm)

**Width:** 19.0 in (48.26 cm)

**Depth:** 8.5 in (21.59 cm)

## Weight

4.3 lbs (2.0 kg)

