

Crestron MP2E

Ethernet Control System with A/V Switching



The MP2E is a low-cost 2-Series Ethernet control system and audio/video switcher that provides total control of a room's multi-media resources, including CD players, DVD players, projectors, screens, even lighting. With a unique combination of high-performance Ethernet control and switching at an affordable price, the MP2E is the ideal AV control solution for colleges, corporate campuses, and other multi-room facilities.

Power—The heart of the MP2E is the 2-Series processor, built on Motorola's 32-bit, 257 MIPS ColdFire® technology. The MP2E features the same processor as the higher end PRO2 and AV2, with 36MB of onboard memory, allowing the MP2E to run the most sophisticated control applications.

Professional Video Control—The 4x2 high-bandwidth video crosspoint distributes video from 4 composite sources to two destinations—great for sending sources to presentation displays like plasma screens or projectors while previewing sources on a Crestron touchpanel. Alternatively, 2 S-Video sources can be switched to one display device. The video inputs include video signal detectors to confirm device power and signal presence.

The Crestron C2N-MMS video matrix switcher can easily be added to extend the video processing capabilities of the MP2E. With 3 additional S-Video inputs switchable to 2 outputs, 4 RGB inputs switchable to 2 outputs, and the C2N-MMS-SC scan converter card, the C2N-MMS is the ideal complement to the MP2E.

Professional Audio Control—The 7x1 stereo audio switcher provides balanced and unbalanced switching of room audio sources, with stereo volume and tone control and a 6-band graphic/parametric equalizer, so the sound is always precisely tailored to the listening environment. All the audio features of the MP2E are easily programmable with Crestron Digital Audio Tools™ software. Drag the sliders and adjust the waveforms to set EQ filters and presets. Select real time mode to hear the sound as it is adjusted, and then create a configuration file ready to be uploaded to the MP2E.

Versatility—I/O options include 2 COM ports; 4 IR ports; 4 isolated relays; 4 I/O Versiports; 6 BNC video connectors; 8 stereo audio connectors; 1 10/100 Ethernet port; 1 Cresnet port; and 1

IR input designed to work with the CNXRMRD IR detector and any universal RC-5 IR remote, for low-cost control of AV devices.

e-Control 2™ Technology—The MP2E 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 standalone XPanel programs that users can launch from their Windows® desktop or from Windows PocketPC 2002 PDA devices and Windows Tablet PCs.

The MP2E 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 257MIPS ColdFire® technology
- > 4x2 high-bandwidth video switch with video signal detectors
- > 7x1 stereo audio switch
- > 6-band graphic/parametric EQ
- > Built-in volume, treble and bass control
- > 2 bi-directional COM ports
- > 4 IR/serial ports
- > 4 isolated relays
- > 4 Versiports
- > 1 IR input compatible with universal IR remotes
- > 1 Cresnet port
- > Built-in Web server for remote browser/XPanel control
- > DHCP/DNS enabled with SSL (Secure Sockets Layer)
- > PW-2410RU power supply included
- > Easily configured with Crestron SystemBuilder software

Crestron MP2E Ethernet Control System with A/V Switching

Processor

CPU: 32-bit Motorola ColdFire® 5407 Microprocessor

Processing Speed: 257 MIPS (Dhrystone 2.1 benchmark)

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

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 UART per port, allowing simultaneous firing of all ports

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

Video inputs: (4) BNC
4 composite or 2 S-video sources
Discrete video signal detectors

Video outputs: (2) BNC
2 composite or 1 S-video

Audio inputs: (5) 3-pin mini Phoenix
Unbalanced audio

Audio inputs: (2) 5-pin mini Phoenix
Balanced audio

Audio output: (1) 5-pin mini Phoenix
Balanced and unbalanced audio

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

Cresnet: (1) 4-pin Phoenix

Ethernet (1): RJ-45
10/100Base-T full duplex

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

7x1 Audio Switcher

Volume control: -80db to +20dB balanced input and output

Bass/treble controls: +/-15dB

Equalization: Selectable 5-band graphic plus 1-band parametric; 3-band graphic plus 3-band parametric; or full 6-band parametric

Input compensation: +/-10dB per input channel

Input impedance: 10K ohms balanced, 5K ohms unbalanced

Video Switcher

4x2: 4 composite inputs switchable to two outputs

-OR-

2x1: 2 S-video inputs switchable to one output

Video signal detectors at each input

Input impedance: 75 ohms, terminated

Minimum bandwidth: 100MHz

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

18 Watts (0.75 Amps @ 24 Volts DC)
PW-2410RU power supply included
Available Cresnet power: 6 Watts

Dimensions

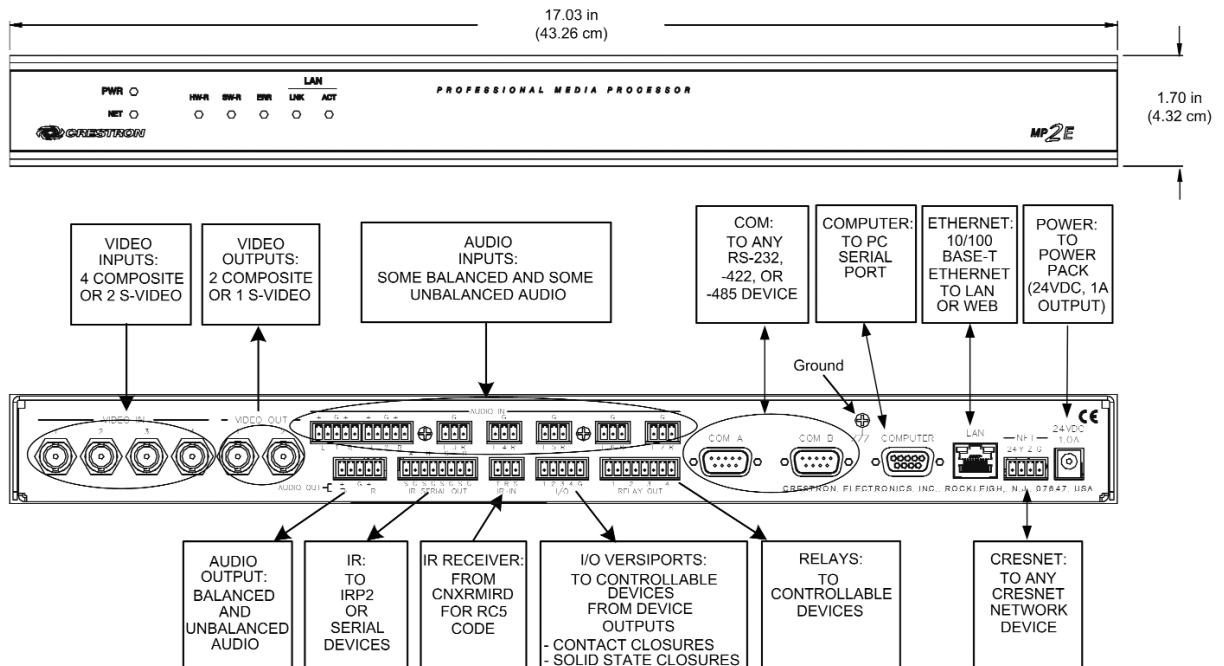
Height: 1.7 in (4.32 cm)

Width: 19.0 in (48.26 cm)

Depth: 8.5 in (21.59 cm)

Weight

3.54 lb (1.59 kg)



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