

Crestron MP2 Control System with A/V Switching



The MP2 is a low-cost 2-Series control system and audio/video switcher that provides total control of a room's multi-media resources, including CD players, DVD players, projectors, screens, window coverings, even lighting. With a unique combination of high-performance control and switching at an affordable price, the MP2 is the ideal AV control solution for colleges, corporate campuses and other multi-room facilities.

Power—The heart of the MP2 is the 2-Series processor, built on Motorola's 32-bit, 257 MIPS ColdFire® technology. The MP2 features the same processor as the higher end PRO2 and AV2, with 36MB of onboard memory, allowing the MP2 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 MP2. 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 MP2.

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 MP2 are easily programmable with Crestron Digital Audio Tools™ software. Drag sliders and adjust waveforms to set EQ filters and presets. Select real time mode to

hear the sound as it is adjusted, create a configuration file ready to be uploaded to the MP2.

Versatility—I/O options include 2 bi-directional COM ports; 4 IR ports; 4 isolated relays; 4 I/O Versiports; 6 BNC video connectors; 8 stereo audio connectors; 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.

Crestron SystemBuilder™—Programmers can design an MP2 AV switching and control solution in minutes with Crestron SystemBuilder™ software. Simply follow the prompts and SystemBuilder automatically creates a professional control system program ready to be uploaded to the processor or customized with the Crestron Application Builder™. Alternatively, Crestron SIMPL Windows offers practically unlimited options for programming and customization.

> *2-Series processor built on Motorola's 32-bit 257MIPS ColdFire® technology*

> *4x2 high-bandwidth video switch with video signal detectors, expandable with the Crestron C2N-MMS*

> *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*

> *PW-2410RU power supply included*

Crestron MP2 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 CNXRMIRD 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

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: Input 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: 100 MHz

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

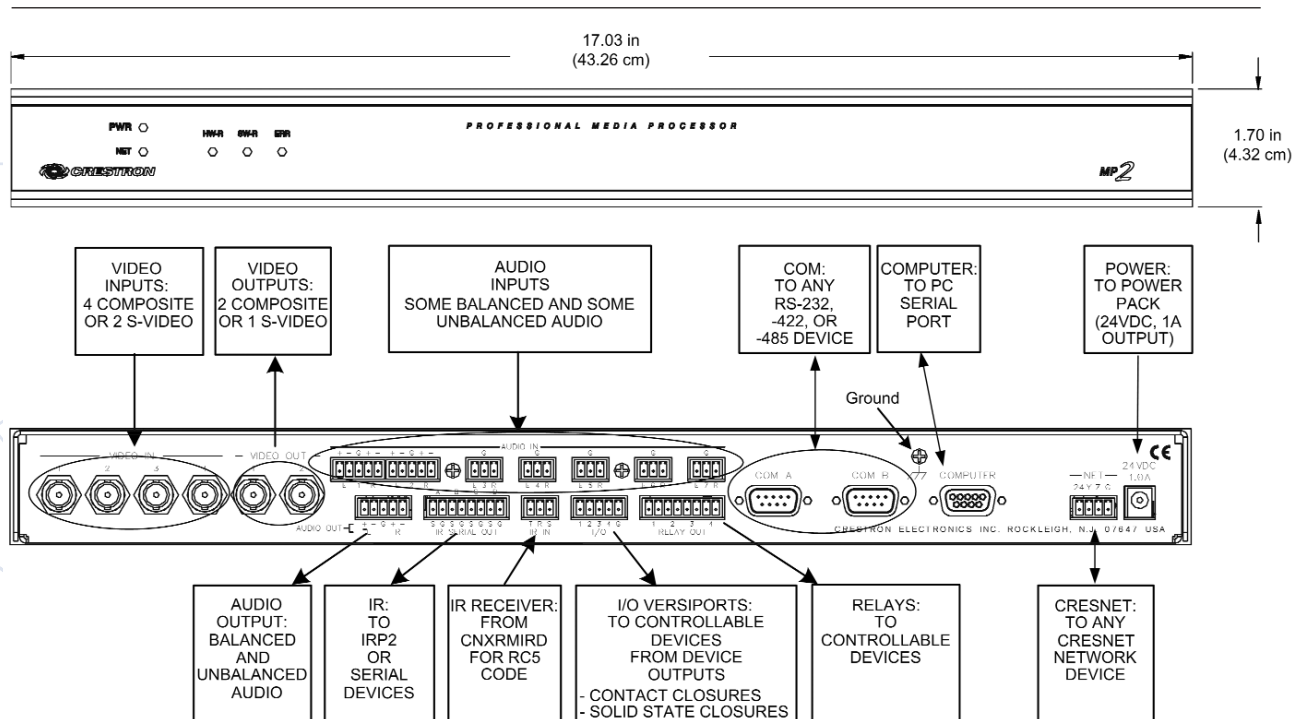
Height: 1.7 in (4.32 cm)

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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