Crestron® MediaManager is a comprehensive family of affordable products fusing high-performance AV signal distribution, device control, and facility-wide system management. MediaManager simplifies the art of ProAV system design and installation with complete hardware, software, and low-cost wiring solutions.

The MP2E combines an Ethernet control system and audio/video switcher in a single box to provide a cost-effective total room control solution. Easily configured with Crestron SystemBuilder™ software, the MP2E is all that is needed to select and control all of the room's AV and environmental resources including VCRs, DVD/CD players, projectors, screens, lighting and more. With a unique combination of high-performance features and performance at an affordable price, the MP2E is the ideal AV control solution for college campuses, corporate meeting and training centers, and other multi-room facilities.

#### 4x2 Video Switcher

The high-bandwidth 4x2 video crosspoint switcher distributes video from four composite sources to two destinations?great for displaying one source on a plasma display while previewing another on a Crestron touchpanel. Alternatively, the switcher may be configured as a 2X1 S-Video switcher. Built-in video-sensing on each input can be used to provide device power status information to the control system, and to detect signal presence for auto-switching.

The video routing capabilities of the MP2E can be extended by adding the C2N-MMS S-Video/RGBHV matrix switcher.

#### 7x1 Audio Switcher/Processor

The 7x1 audio switcher provides balanced and unbalanced inputs for seven stereo audio sources. Built-in volume, bass, treble and mute controls and a 6-band graphic/parametric equalizer allow for precise adjustment and complete control of the audio signal. All audio settings and presets may be recalled and controlled from a Crestron touchpanel, keypad or other user interface. Crestron's Digital Media Tools (DMT) software provides the installer with a simple utility for setting input levels and equalization settings.

#### 2-Series Engine

At the heart of the MP2E is the powerful 2-Series engine. Our exclusive enhanced real-time operating system makes the MP2E the fastest, most reliable control system available. The MP2E features two built-in COM ports, four IR/Serial ports, four I/O Versiports, and four isolated relays, and supports the full range of Crestron touchpanels, keypads, and Cresnet peripherals.

#### **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 MP2E 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.

#### Ethernet

Crestron pioneered the IP-based control system to harness the vast



possibilities of Ethernet and the Internet for remote control, monitoring, programming, and diagnostics. The MP2E is designed to deliver the world's most advanced IP control solution with full-duplex 10/100 Ethernet, built-in Web server and email client, and support for both static and dynamic IP addressing.

#### e-Control®2

Our award-winning e-Control 2 XPanel solutions offer the most flexible range of IP control possibilities available. Using a computer or mobile device, e-Control 2 provides an amazing control GUI that looks and behaves just like a Crestron touchpanel.

#### RoomView™

Every Ethernet-enabled 2-Series control system works directly with Crestron exclusive RoomView Help Desk software for the industry's most comprehensive facility-wide asset management solution.

#### SNMP

Built-in SNMP support enables network management of Crestron control systems using third-party SNMP software. As an alternate or supplement to RoomView, SNMP allows full control and monitoring from the IT Help Desk or NOC in a format that's familiar to IT personnel.

#### SSL

All Ethernet-enabled 2-Series control systems support SSL (Secure Sockets Layer), the industry standard for protecting sensitive network communications.

#### **IR Wireless Option**

When equipped with an optional CNXRMIRD IR receiver, the MP2E provides a low-cost wireless control solution using any Crestron IR wireless touchpanel, or a third-party universal IR remote.

- > 2-Series engine | Dual-bus architecture
- > Integrated AV Switcher/Processor
- > Cresnet port master/slave selectable
- > 10/100 Ethernet | SSL encryption



- > e-Control 2 and RoomView enabled | SNMP support
- > 2 Com ports (RS-232/422/485)
- > 4 IR/serial ports
- > 4 Versiport I/O ports
- > 4 Low-voltage relay ports
- > IR wireless compatible using CNXRMIRD
- > Complete setup in minutes using MP2 Wizard Software
- > 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, multitasking kernel, multi-threaded; FAT32 file system with long names; supports SIMPL Windows™ and SIMPL+®

#### **Ethernet**

10/100BaseT, static IP or DHCP/DNS, SSL, auto-negotiating, full duplex TCP/IP, UDP/IP, CIP, SMTP, SNMP, built-in Web server and e-mail client; supports Crestron e-Control®2 XPanel and RoomView™ applications

#### <u>Video</u>

Switcher: 4x2 composite matrix switcher or 2x1 Y/C (S-Video) switcher

Bandwidth: 100MHz minimum

Crosstalk: -60dB

#### Audio

Features: 7x1 stereo audio switcher, digital parametric and/or graphic

Master Volume: -80dB to +20dB, 1dB steps

Input Compensation: ±10dB, 0.1dB steps from DMT, 0.2dB steps from

SIMPL

Bass Gain Range: ±15dB @ 100Hz, 0.5dB steps Treble Gain Range: ±15dB @ 10kHz, 0.5dB steps

**Equalization Modes:** 6-band parametric; 3-band graphic + 3-band parametric;

5-band graphic + 1-band parametric; 5-band graphic + 1-band parametric (speech-optimized)

PEQ Filter Gain: ±12dB, 0.01dB steps from DMT; +24/-36dB, 0.1dB steps

from SIMPL

PEQ Filter Bandwidth: 0.02 to 2.0 octaves (1.0 to 3.0 for shelving) from DMT,

0.02 to 3.5 octaves from SIMPL, 0.01 octave steps

**PEQ Filter Center Frequency:** 25Hz to 19.9kHz from DMT; 5Hz to 24KHz from SIMPL, 1Hz steps

**PEQ Filter Types:** low pass, high pass, EQ filter (peaking/notching), bass shelf, and treble shelf

GEQ Filter Gain: ±12dB from DMT, ±10dB from SIMPL, 0.1dB steps GEQ Filter Center Frequencies: 63Hz, 250Hz, 1kHz, 4kHz, 10kHz (5-band);

160Hz, 600Hz, 1kHz, 2.5kHz, 5kHz (5-band speech);

250Hz, 1kHz, 4kHz (3-band)

Frequency Response: 20Hz to 20kHz +0/-0.5 dB

THD+N: <0.005% at 1kHz, A-weighted, maximum input/output

S/N Ratio: >97 dB, 20Hz to 20kHz A-weighted

Channel Separation: >100dB at 1kHz;

90dB 20Hz to 20kHz

Crosstalk: > -90dB 20Hz to 20kHz

Common Mode Rejection: >85dB 20Hz to 20kHz

#### **Connectors - Video**

VIDEO IN 1 - 4: (4) BNC female comprising (4) composite or (2) S-Video

inputs;

Input Impedance: 75 ohms; Discrete video sensing on each input

VIDEO OUT 1 - 2: (2) BNC female comprising (2) composite or (1) S-Video

outputs;

Output Impedance: 75 ohm

#### **Connectors - Audio**

AUDIO IN 1 - 2: (2) 5-pin 3.5mm detachable terminal blocks comprising (2)

balanced/unbalanced stereo line-level inputs;

Input Impedance: 15k ohms balanced, 10k ohms unbalanced; Maximum Input Level: 4 Vrms balanced, 2 Vrms unbalanced

AUDIO IN 3 - 7: (5) 3-pin 3.5mm detachable terminal blocks comprising (5)

unbalanced stereo line-level inputs; Input Impedance: 10k ohms;

Maximum Input Level: 2 Vrms

AUDIO OUT L/R: (1) 5-pin 3.5mm detachable terminal block;

Balanced/unbalanced stereo line-level output;

Output Impedance: 200 ohms balanced, 100 ohms unbalanced; Maximum Output Level: 3.6 Vrms balanced, 1.8 Vrms unbalanced

#### **Connectors - Control & Power**

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

IR SERIAL OUT 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;

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

LAN: (1) 8-wire RJ45 with 2 LED indicators;

10/100BaseT Ethernet port;

Green LED indicates link status;

Yellow LED indicates Ethernet activity

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

Ground: (1) 6-32 screw, chassis ground lug

#### **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

LNK: (1 red) Indicates a valid connection on LAN port

ACT: (1 red) Indicates activity on LAN port

#### **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**: 30 Watts using PW-2420RU power pack (included) **Cresnet Power Usage**: 18 Watts (0.75 Amp @ 24 Volts DC) usinf 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

overiay

Mounting: Freestanding or 1U 19-inch rack-mountable (adhesive feet and

rack ears included)

#### **Dimensions**

Height: 1.70 in (44 mm) Width: 17.03 in (433 mm); 19.0 in (483 mm) with ears Depth: 9.08 in (231 mm)

#### **Weight**

3.54 lbs (1.61 kg)

#### **Available Models**

MP2E: Integrated AV Control System with Ethernet

#### **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

**C2N-MMS:** Video/RGB Switcher **CNSP-XX:** Custom Serial Interface Cable

CNXRMIRD: IR Receiver IRP2: IR Emitter Probe

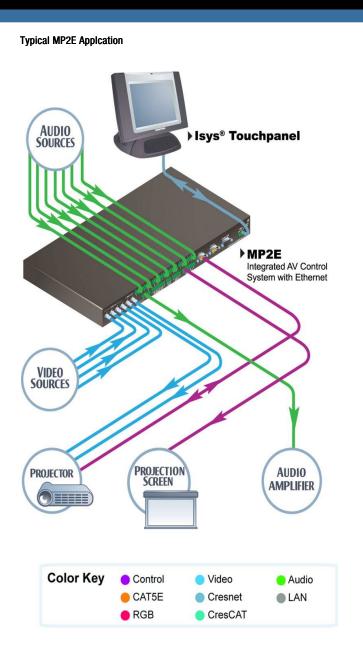
#### Notes:

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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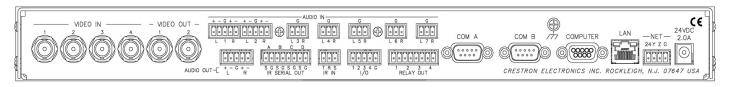






# Front 17.03 in (43.25 cm) PWR O HARD SHAR MSG LAN PROFESSIONAL MEDIA PROCESSOR MP2E 1.7 in (4.32 cm)

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