

# MPC-M50

## MPC Media Presentation Controller™ M50

Crestron MPC is a family of 2-Series control systems designed for installation in a wall or podium, delivering the industry's best multimedia room control technology in a convenient, space-saving design. Perfect for classrooms, meeting rooms, lecture halls, and training facilities, the MPC-M50 provides a fully-programmable user interface featuring illuminated LCD display, pushbuttons with customizable backlit labeling, volume control, and wireless remote capability.

Available in white or black, the MPC-M50 is constructed to handle the rigors of everyday use in a corporate or educational environment. Numerous programmable control ports afford plentiful connectivity for a roomful of audio, video, and lighting equipment. The onboard e-Control® Web server provides for complete integration as part of a facility-wide managed control network.

### Control...Simplified

The MPC-M50 is engineered to be easy to integrate and use, yet versatile enough to suit each application perfectly. Its front panel features a large LCD display with 4 "soft keys," plus 7 "hard key" buttons with LED feedback, and a volume control knob, all which can be freely programmed for controlling system functions like power, source selection, transport control, audio settings, lighting, and much more. The continuous-turn "volume" knob provides quick access for adjusting audio volume and setting values on the LCD display. The soft keys are used to actuate dynamic menu functions that appear on the display, while the hard keys and LEDs provide immediate access to the most commonly used functions. Custom backlit labeling of the hard keys is facilitated using an assortment of pre-printed labels or Crestron Engraver software.

Configuring a complete MPC media presentation control solution is simplified using Crestron **SystemBuilder™** software, allowing limitless programmability from the award-winning platform that's familiar to every Crestron dealer. Uploading and updating a facility full of MPC systems is managed easily over the network, or individually via the front panel USB port.

### Wireless Remote

A range of options is available for adding wireless remote control to the MPC system. Its built-in IR receiver allows use of any Crestron IR wireless touchpanel or handheld remote without requiring a separate receiver or gateway. For greater range and freedom of movement, MPC also supports the full line of Crestron RF wireless and WiFi based products.

### Wired Expansion

With Cresnet® and Ethernet built-in, the MPC-M50 works seamlessly with the entire Crestron line of keypads and touchpanels, lighting dimmers and shade controllers, signal processors and switchers, and much more.

### Built-in Control Ports

Through a host of onboard control ports, the MPC-M50 interfaces directly with video displays and projectors, DVD players, TV receivers, projection screens, lifts, occupancy sensors, and other devices in the room. In addition to Cresnet and high-speed Ethernet, there are two bidirectional RS-232 COM ports, two IR/serial ports, six isolated relays, and four input ports right on the rear panel.



### Audio and Video Control

The MPC-M50 is ideal for all kinds of small to medium sized room systems. Like any 2-Series control system, MPC is fully scalable to suit applications with numerous program sources, microphones, and multiple displays. Use it to control any Crestron AV switcher or signal processor, or as the front end for a system of QuickMedia® wall plates, FlipTop interfaces, switchers, and receivers for a total signal routing, processing, and amplification solution.

### Ethernet and e-Control®2

Built-in 10/100 Ethernet facilitates secure high-speed network connectivity, enabling extensive capabilities for remote system maintenance and control, and providing an interface to other Crestron control systems. The onboard Web server provides the foundation for Crestron exclusive **e-Control 2** Xpanel technology, providing secure IP-based remote control. SSL encryption prevents hackers from breaching the system and accessing its controls.

### RoomView® and SNMP

The MPC-M50 communicates directly with Crestron **RoomView** help desk software, the industry's most comprehensive facility-wide solution for remote monitoring and asset management. Built-in SNMP support also enables integration with third-party network management software, allowing full control and monitoring from the IT Help Desk or NOC in a format that's familiar to IT personnel.

### Cresnet® Slave Mode

Selectable Cresnet Slave Mode enables the MPC-M50 to become a Cresnet controller and expansion module as part of a larger Crestron system, providing a deluxe user-interface with local control ports built in for interfacing to nearby devices.

### Ambient Light Sensor

The MPC-M50's built-in light sensor has a range of uses, from controlling its own backlight intensity, to providing ambient lighting level data to a central building management system.

[> Wall mount 2-Series control system](#)

[> Programmable LCD graphic display](#)

# MPC-M50 MPC Media Presentation Controller™ M50

- > Volume control and menu navigation knob
- > 7 programmable buttons with LED feedback
- > Customizable backlit button labels
- > Built-in IR receiver and light sensor
- > 2 RS-232, 2 IR, 4 input, & 6 relay control ports
- > Cresnet and 10/100 Ethernet communications
- > Onboard e-Control® Web server
- > RoomView® and SNMP remote management
- > SSL (Secure Sockets Layer) network protection
- > Astronomical time clock
- > Extensively programmable via SystemBuilder™ software
- > Rugged construction
- > 3-gang wall-mountable
- > Available in white or black
- > Includes external Cresnet power supply

## SPECIFICATIONS

### Processor

CPU: 32-bit Freescale ColdFire® Microprocessor

### Memory

SDRAM: 32 MB

NVRAM: 256 KB

Flash: 8 MB

### Time Clock

Accuracy: ±1 minute per year

### Operating System

Real-time, preemptive multi-threaded/multitasking kernel; FAT32 file system with long names; supports SIMPL™ Windows® and SIMPL+®

### Ethernet

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

### Connectors

**NET:** (2) sets of (4) captive screw terminals; Cresnet port and 24 Volt DC power input with parallel pass-thru; Master/Slave selectable

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

10/100BaseT Ethernet port;

Green LED indicates link status;

Yellow LED indicates Ethernet activity

**COM 1:** (5) captive screw terminals;

Bidirectional RS-232 port;

Up to 115.2k baud; hardware and software handshaking support

**COM 2:** (3) captive screw terminals;

Bidirectional RS-232 port;

Up to 115.2k baud; software handshaking only

**RELAYS 1 - 6:** (9) captive screw terminals comprising (6) normally open, isolated relays (every two share a common);

Rated 1 Amp, 30 Volts AC/DC;

**IR 1 - 2:** (4) captive screw terminals comprising (2) 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

**INPUTS 1 - 4:** (5) captive screw terminals comprising (4) digital or analog input ports (referenced to GND);

Digital Input: Rated for 0-24 Volts DC, input impedance 20k ohms, logic threshold 1.25 Volts DC;

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

**Computer:** (1) USB Type B female (behind front cover);

USB 1.1 computer console port

**Ground:** (1) flying lead, chassis ground wire

### LCD Display

Green LCD dot matrix, 128 x 64 resolution, adjustable LED backlight; Supports dynamic text and icon graphics, scrolling text, scrolling lists, Windows® SideShow® enabled

### Controls and Indicators

**VOLUME:** (1) Programmable continuous turn rotary encoder for volume adjustment, navigating menu, scrolling lists, and adjusting values

**MUTE:** (1) Programmable pushbutton

**HOME:** (1) Pushbutton, returns to the home page

**&and;, &or;:** (2) Pushbuttons, scroll up or down through menu and adjust menu parameters

**ENTER:** (1) Pushbutton, executes highlighted menu or value

**Soft Keys:** (4) pushbuttons for activation of LCD driven functions

**Hard Keys:** (7) Programmable pushbuttons with backlit labeling

**Feedback Indicators:** (7) Programmable red LEDs (1 per hard key)

**HW-R:** (1) Recessed miniature pushbutton for hardware reset (reboots the processor)

**SW-R:** (1) Recessed miniature pushbutton (behind front cover) for software reset (restarts the SIMPL program)

### Light Sensor

Photosensor, programmable for auto-dimming of front panel labeling and other functions

### IR Receiver

**Reception Frequency:** 36 to 38 kHz IR

**Formats:** Crestron format, RC5

**Range:** Up to 50 ft line of sight (typical), dependent upon angle, obstructions, IR interference, and IR remote signal strength

### Power Requirements

**Cresnet Power Usage:** 10 Watts (0.42 Amps @ 24 Volts DC) ;

**PW-2407RU** power supply included

**Available Cresnet Power:** 8 Watts using **PW-2407RU** (included)

### Environmental

**Temperature:** 32° to 104°F (0° to 40°C)

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

**Heat Dissipation:** 20 BTU/hr

### Enclosure

**Faceplate:** High-impact plastic, black or white, with polycarbonate label overlay

**Chassis:** Injection-molded plastic with steel mounting plate

**Mounting:** Requires 3-gang plaster ring or electrical box (&g2.5 inch deep recommended)

### Dimensions

**Height:** 4.50 in (11.43 cm)

**Width:** 6.70 in (17.02 cm)

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## **Weight**

1.33 lb (0.61 kg)

## **Available Models**

**MPC-M50-B-T:** Media Presentation Controller™ M50, Black

**MPC-M50-W:** Media Presentation Controller™ M50, White

## **Included Accessories**

**PW-2407RU** 18 Watt Cresnet Power Supply, US/International

[Included Quantity for MPC-M50-B-T, MPC-M50-W: 1]

## **Available Accessories**

**MP/MPC/IPAC\_FRONT\_LABEL\_ENGRAVED-B-T:** Custom Engravable Backlit Labels, Black

**MP/MPC/IPAC\_FRONT\_LABEL\_ENGRAVED-W:** Custom Engravable Backlit Labels, White

**TTK-MP/MPC/IPAC-B-T:** Table Top Kit, Black

**TTK-MP/MPC/IPAC-W:** Table Top Kit, White

**SMK-MP/MPC/IPAC:** Swivel Mount Kit

**CNSP-XX:** Custom Serial Interface Cable

**IRP2:** IR Emitter Probe

**MP-B10-B-T:** Media Presentation Button Panel B10, Black

**MP-B10-W:** Media Presentation Button Panel B10, White

**MP-B20-B-T:** Media Presentation Button Panel B20, Black

**MP-B20-W:** Media Presentation Button Panel B20, White

**MP-WP100-B:** Media Presentation Wall Plate, Black - RCA Composite Video w/ RCA Stereo Audio

**MP-WP100-W:** Media Presentation Wall Plate, White - RCA Composite Video w/ RCA Stereo Audio

**MP-WP110-B:** Media Presentation Wall Plate, Black - Mini-DIN S-Video w/RCA Stereo Audio

**MP-WP110-W:** Media Presentation Wall Plate, White - Mini-DIN S-Video w/RCA Stereo Audio

**MP-WP120-B:** Media Presentation Wall Plate, Black - RCA Component Video w/ RCA Stereo Audio

**MP-WP120-W:** Media Presentation Wall Plate, White - RCA Component Video w/ RCA Stereo Audio

**MP-WP125-B:** Media Presentation Wall Plate, Black - RCA Component & Composite Video w/2x RCA Stereo Audio

**MP-WP125-W:** Media Presentation Wall Plate, White - RCA Component & Composite Video w/2x RCA Stereo Audio

**MP-WP130-B:** Media Presentation Wall Plate, Black - DB15HD Computer w/Mini-TRS Stereo Audio

**MP-WP130-W:** Media Presentation Wall Plate, White - DB15HD Computer w/Mini-TRS Stereo Audio

**MP-WP131-B:** Media Presentation Wall Plate, Black - DB15HD Computer w/Mini-TRS Stereo Audio

**MP-WP131-W:** Media Presentation Wall Plate, White - DB15HD Computer w/Mini-TRS Stereo Audio

**MP-WP140-B:** Media Presentation Wall Plate, Black - DVI-I w/Mini-TRS Stereo Audio

**MP-WP140-W:** Media Presentation Wall Plate, White - DVI-I w/Mini-TRS Stereo Audio

**MP-WP150-B:** Media Presentation Wall Plate, Black - HDMI w/Mini-TRS Stereo Audio

**MP-WP150-W:** Media Presentation Wall Plate, White - HDMI w/Mini-TRS Stereo Audio

**MP-WP152-B:** Media Presentation Wall Plate, Black - HDMI

**MP-WP152-W:** Media Presentation Wall Plate, White - HDMI

**MP-WP160-B:** Media Presentation Wall Plate, Black - DisplayPort w/Mini-TRS Stereo Audio

**MP-WP160-W:** Media Presentation Wall Plate, White - DisplayPort w/Mini-TRS Stereo Audio

**MP-WP162-B:** Media Presentation Wall Plate, Black - DisplayPort

**MP-WP162-W:** Media Presentation Wall Plate, White - DisplayPort

**MP-WP180-B:** Media Presentation Wall Plate, Black - QuickMedia

**MP-WP180-W:** Media Presentation Wall Plate, White - QuickMedia

**MP-WP185-B:** Media Presentation Wall Plate, Black - DigitalMedia™ CAT

**MP-WP185-W:** Media Presentation Wall Plate, White - DigitalMedia™ CAT

**MP-WP186-B:** Media Presentation Wall Plate, Black - DigitalMedia™ Fiber

**MP-WP186-W:** Media Presentation Wall Plate, White - DigitalMedia™ Fiber

**MP-WP190-B:** Media Presentation Wall Plate, Black - Cresnet

**MP-WP190-W:** Media Presentation Wall Plate, White - Cresnet

**MP-AMP30:** Media Presentation Audio Amplifier

[Just Released]

**SW-ROOMVW-ENT:** RoomView® Express - Remote Help Desk and Resource Management Software

**SW-ROOMVW-SERVER:** RoomView® Server Edition - Enterprise Management and Scheduling Software

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