



- Crestron® 3-Series Control System® automated processor and control panel
- Mounts flush on a wall or lectern and fits in a 1-gang U.S. electrical box
- Nine buttons customizable with replaceable icon chips, plus power, volume, and mute buttons and a volume gauge
- Fully-programmable functionality
- Built-in .AV Framework™ software
- High-speed Ethernet LAN port
- Onboard Cresnet® network, RS-232, IR, relay, and Versiport control ports
- iPhone®, iPad®, and Android® device control app support
- XPanel computer and web based control
- Crestron Fusion® software room monitoring and scheduling
- Crestron XiO Cloud<sup>™</sup> service provisioning and management
- SNMP remote IT management support
- Native BACnet<sup>™</sup> network/IP support
- Installer setup via software, web browser, or cloud
- Drag-and-drop, C#, and symbol based programming environments with full Unicode (multilanguage) support
- Enterprise-grade security and authentication
- IPv6 ready
- PoE network powered

The 3-Series® Media Presentation Controller 102 (MPC3-102) is a wall-mounted, PoE-powered 3-Series Control System® automated processor and control panel in one. Its modern appearance and customizable backlit capacitive buttons provide an ideal user interface for controlling AV and other functions. It offers fully-programmable functionality, supports web and cloud-based configuration and management, and integrates with Crestron Fusion® software as part of a complete managed enterprise solution.

Crestron® MPC3 series controllers are perfect for classrooms, meeting rooms, lecture halls, and training facilities – wherever a simple yet powerful controller is needed but space is limited. Use the MPC3-102 to control a video display or AV system, adjust lighting and window shades, or any other custom application.

The MPC3-102 is designed for flush-mount installation in a wall using a 1-gang U.S. electrical box (not included). It can also be installed in a podium with no back box. A retrofit mounting bracket is also available to allow installation over a 2-gang U.S. electrical box, which offers an easy upgrade solution to replace an older MPC-M5 series controller.

# Customizable Backlit Capacitive Buttons

The MPC3-102 features nine backlit capacitive buttons, which can each be labeled using the icon chips provided, or custom labeled using laser-engravable chips (sold separately). Each button is backlit blue when active and white when inactive to provide clear indication of what media source or lighting scene is currently selected. Four additional backlit buttons are included at the bottom along with a volume gauge for control of volume, mute, and power.

All buttons on the MPC3-102 are custom programmable to control any device or function. Built-in proximity sensing wakes the buttons as you approach, and autobrightness control maintains optimal visibility of the buttons under varying lighting conditions.

For information about ordering custom icon chips, refer to the MPB3/MPC3-BTN3-B ENGRAVED web page.

### No Rack Required

The MPC3-102 encapsulates the industry's best control technologies in one compact wall mount device. High-speed Ethernet provides the essential interface for connecting to the building network and controlling Crestron AV switchers, audio processors, and other IP controllable equipment. Cresnet® network connectivity provides support for Crestron lighting dimmers, motorized shades, sensors, thermostats, keypads, and more. Onboard RS-232, IR, relay, and Versiport I/O control ports enable direct integration with all types of third-party equipment.







Expanded connectivity is available using a DIN-CENCN-2 or DIN-CENCN-2-POE Ethernet to Cresnet bridge, CEN-GWEXER or CENI-GWEXER infiNET EX® wireless gateway, CEN-CI3-1 or CEN-CI3-3 control card interface, or CEN-IO-COM-102, CEN-IO-DIGIN-104, CEN-IO-IR-104, or CEN-IO-RY-104 wired Ethernet module.

## 3-Series® Control Engine

The MPC3-102 features an integrated, enterprise-grade 3-Series control processor. Crestron 3-Series delivers a dynamic and secure control system platform capable of managing a room full of disparate technologies. Its Modular Programming Architecture (optional <sup>[1]</sup>) allows the MPC3-102 to run multiple programs simultaneously for increased efficiency and flexibility. Rock solid networking and IP control afford seamless integration with other systems and devices, with add-on control capability using Crestron touch screens, wireless remotes, and mobile device apps with remote management through Crestron Fusion® software and Crestron XiO Cloud™ service.

# No Programming Required!

Built-in .AV Framework™ software technology delivers a fully functional AV presentation system with simplified web-based configuration and a choice of control options and add-ons. For complete details on the capabilities supported by .AV Framework, visit www.crestron.com/avframework.

## Crestron Fusion Room Monitoring and Scheduling

Crestron Fusion provides an integrated platform for creating smart buildings that save energy and enhance worker productivity. As part of a complete managed network in a corporate enterprise, college campus, convention center, or any other facility, the MPC3-102 works with Crestron Fusion to enable remote scheduling, monitoring, and control of rooms and technology from a central help desk or mobile app. It also enables organizations to reduce energy consumption by tracking real-time usage and automating control of AV, lighting, shades, and HVAC. For more information about Crestron Fusion, visit www.crestron.com/fusion.

# Crestron XiO Cloud Provisioning and Management

The MPC3-102 is compatible with the Crestron XiO Cloud service. Crestron XiO Cloud is Crestron's unifying IoT (Internet of Things) based platform for remotely provisioning, monitoring, and managing Crestron devices across an enterprise or an entire client base. Crestron XiO Cloud enables installers and IT managers to deploy and manage thousands of devices in the amount of time it would ordinarily take to manage just one. For more information about Crestron XiO Cloud, visit www.crestron.com/xiocloud.

# **Enterprise-Grade Security**

The MPC3-102 is an enterprise-class control processor that can be deployed across hundreds of spaces and set up easily using a web browser, toolbox software, Crestron Fusion, or Crestron XiO Cloud. It employs standard network security protocols, including 802.1X network access control, Active Directory® software authentication, SSH, TLS, and HTTPS to ensure reliability and compliance with your organization's IT policies.

## **SNMP Support**

Built-in SNMP support enables integration with third-party IT management software, allowing network administrators to manage and control Crestron systems on the network in an IT-friendly format.

#### Power over Ethernet

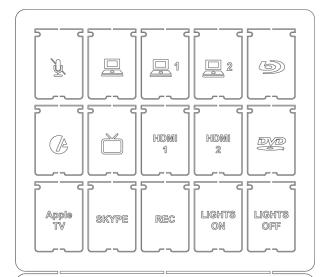
Using PoE technology, the MPC3-102 gets its operating power directly through the LAN wiring. PoE (Power over Ethernet) eliminates the need for a local power supply or any dedicated power wiring. A PoE Injector (PWE-4803RU) simply connects in line with the LAN cable at any convenient location. Crestron PoE switches (CEN-SW-POE-5 or CEN-SWPOE-16) may also be used to provide a total networking solution with built-in PoE. All PoE injectors and switches are sold separately.





#### Flush Mount Installation

The MPC3-102 is designed to be flush-mounted in a wall using a 1-gang U.S. electrical box (not included). It can also be installed in a lectern or podium with no back box. Using the optional retrofit mounting bracket (MPC3-101/102/201-RMB, sold separately), the MPC3-102 can be installed in a 2-gang U.S. electrical box, allowing easy replacement of an existing MPC-M5 series controller. Once installed, the button labels can be changed at any time by simply removing the front cover. A security screw is included to prevent unauthorized removal.



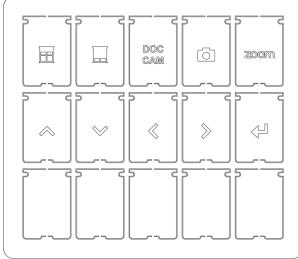


Figure 1: Included Icon Chips

# **Specifications**

# **Control Engine**

Crestron 3-Series; real-time, preemptive multithreaded/multitasking kernel; transaction-safe extended FAT file system; battery-backed nonvolatile real-time clock; supports up to 10 simultaneously running programs (license required [1]), preloaded .AV Framework base program

### Communications

**Ethernet:** 100 Mbps, autoswitching, autonegotiating, autodiscovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), FIPS 140-2 compliant encryption, IEEE 802.1X, SNMP, BACnet/IP <sup>[2]</sup>, IPv4 or IPv6, Active Directory authentication, SMTP email client, HTTPS web server, HTTPS web browser setup and Crestron XiO Cloud client, IEEE 802.3af and 802.3at Type 1 PoE compliant

## **Connectors**

LAN PoE: (1) 8-pin RJ45 connector, female; 100Base-TX Ethernet port; PoE (Power over Ethernet) PD (Powered Device) port

**COM:** (1) 3-pin 3.5 mm detachable terminal block; Bidirectional RS-232 port;

Up to 115.2k baud, hardware and software handshaking support

I/O / IR(1) 5-pin 3.5 mm detachable terminal block Comprises (2) Versiport digital input/output or analog input ports (referenced to GND) and (1) IR/Serial port

Digital Input: Rated for 0–24 VDC, input impedance 20k  $\Omega$ , logic threshold >3.125V low/0 and <1.875V high/1;

Digital Output: 250 mA sink from maximum 24 VDC, catch diodes for use with real world loads;

Analog Input: Rated for 0–10 VDC, protected to 24 VDC maximum, input impedance 21k  $\Omega$  with pull-up resistor disabled; Programmable 5 V, 2k  $\Omega$  pull-up resistor per pin;

IR/Serial output port; IR output up to 1.2 MHz; 1-way serial TTL/RS-232 (0-5 V) up to 115.2k baud;

(IRP2 emitter sold separately) **NET:** (1) 3-pin 3.5 mm detachable terminal block;

Cresnet master port;

**RELAY:** (1) 3-pin 3.5 mm detachable terminal block; Comprises (2) normally open, isolated relays; Rated 1 Amp, 30 V AC/DC;

MOV arc suppression across contacts

Ground: (1) 6-32 screw;

Chassis ground lug (flying lead with ring terminal included)





#### Controls and Indicators

Assignable Buttons: (9) Projected capacitive push buttons, each may be labeled using one of 25 prelabeled icon chips or hidden using one of five blackout chips (included), custom laser-etched icon chips are available using optional MPB3/MPC3-BTN3-B ENGRAVED engravable icon chips (sold separately)

Mute: (1) Projected capacitive push button with mute icon

-/+: (2) Projected capacitive push buttons labeled with - (minus) and + (plus) icons for volume control

**Volume Gauge:** (1) Blue LED multisegment bargraph for volume level indication

**Power:** (1) Projected capacitive push button labeled with power icon

**HW-R:** (1) Push button (behind front panel) for hardware reset (reboots the processor)

**SW-R:** (1) Push button (behind front panel) for software reset (restarts the software program)

**Illumination:** Each capacitive button is individually backlit white when inactive and blue when active; autobrightness control adjusts all backlighting in three levels according to the ambient light level; backlighting may be dimmed or extinguished when unit enters idle state

NOTE: All capacitive buttons are custom programmable.

## **Light Sensor**

Photosensor detects the ambient light level to enable autobrightness control

### **Proximity Sensor**

Type: Eye-safe 940 nm laser ranging sensor

Range: Adjustable from 8 to 35 in. (20 to 90 cm)

Detects people within range and wakes the unit from standby or idle state

#### **Audio**

**Key Click:** Sounds when any button is pressed, adjustable to one of three volume settings or off

### **Power**

Power over Ethernet: IEEE 802.3at Type 1 (802.3af compatible) Class 0 (12.95 W) PoE Powered Device

Power Consumption: 4.5 W typical, 2.8 W idle

#### **Environmental**

**Temperature:** 41 to 104 °F (5 to 40 °C)

Humidity: 10% to 90% RH (noncondensing)

Heat Dissipation: 15.4 BTU/hr typical, 9.6 BTU/hr idle

## Construction

**Housing:** Plastic with metal mounting plate, removable front panel with optional security screw

**Flush Wall Mount:** Mounts in a 1-gang U.S. electrical box (not included), mounts in a 2-gang U.S. electrical box using MPC3-101/102/201-RMB retrofit mounting bracket (sold separately)

**Lectern Mount:** Mounts in a 2.85 in. (72 mm) H x 2.04 in. (52 mm) W rectangular cutout using bracket provided

#### **Dimensions**

**Height:** 4.62 in. (117 mm) **Width:** 3.02 in. (77 mm)

Depth: 2.02 in. (51 mm)

# Weight

9.59 oz (272 g)

## Compliance

UL® Standards Listed, CE, IC, FCC Part 15 Class B digital device; Class 1M laser product, complies with safety regulations of IEC-60825-1, FDA 21 CFR 1040.11, and FDA 21 CRF 1040.10

## Models and Accessories

## **Available Models**

#### MPC3-102-B

3-Series® Media Presentation Controller 102, Black

# **Available Accessories**

#### MPB3/MPC3-BTN3-B ENGRAVED

Backlit Engravable Icon Chips for MPC3-101, MPC3-102, and MPC3-201, Black, Set of 3, includes custom engraving

### MPB3/MPC3-BTN3-B BLANK

Backlit Engravable Icon Chips for MPC3-101, MPC3-102, and MPC3-201, Black, Set of 3, engraving not included

#### SW-RMC3-10PROG

10 Program MPA Support License for RMC3 and MPC3 Series

# MPC3-101/102/201-RMB

Retrofit Mounting Bracket for MPC3-101, MPC3-102, and MPC3-201  $\,$ 





#### PWE-4803RU

PoE Injector

#### CEN-SW-POE-5

5-Port PoE Switch

#### **CEN-SWPOE-16**

16-Port Managed PoE Switch

#### SW-XIOC-S-1

Crestron XiO Cloud™ Standard Provisioning and Management Service for one device, 1 year subscription

#### SW-XIOC-S-2

Crestron XiO Cloud $^{\text{TM}}$  Standard Provisioning and Management Service for one device, 2 year subscription

## SW-XIOC-S-3

Crestron XiO Cloud™ Standard Provisioning and Management Service for one device, 3 year subscription

#### SW-XIOC-P-1

Crestron XiO Cloud™ Premium Provisioning and Management Service for one device, 1 year subscription

#### SW-XIOC-P-2

Crestron XiO Cloud $^{\text{TM}}$  Premium Provisioning and Management Service for one device, 2 year subscription

#### SW-XIOC-P-3

Crestron XiO Cloud™ Premium Provisioning and Management Service for one device, 3 year subscription

#### SW-FUSION-C-3

Crestron Fusion® Cloud, 250 rooms; 3-year service, support, and upgrades

#### SW-FUSION-P-L

Crestron Fusion® On-premises, unlimited rooms; lifetime service, support, and upgrades

# CRESTRON-APP

Crestron® App for iPhone® and iPod touch® Devices

## CRESTRON-APP-ANDROID

Crestron® App for Android® OS

#### CRESTRON-APP-PAD

Crestron® App for iPad® Device

#### XPANFI

XPanel - Crestron Control® Interface for Computers

# SW-3SERIES-BACNET-50+

BACnet™ Network/IP Support for 3-Series® Control Processor

## **DIN-CENCN-2**

Ethernet to Cresnet® Network Bridge

#### **DIN-CENCN-2-POE**

Ethernet to Cresnet® Network Bridge with PoE

## CEN-GWEXER

infiNET EX® Network and ER Wireless Gateway

#### **CENI-GWEXER**

infiNET  $\mathsf{EX}^{\texttt{0}}$  Network and ER Wireless Gateway - International Version

#### CEN-CI3-1

3-Series® Control Processor Card Interface - 1 Slot

#### CEN-CI3-3

3-Series® Control Processor Card Interface - 3 Slot

#### CEN-IO-COM-102

Wired Ethernet Module with 2 COM Ports

# CEN-IO-DIGIN-104

Wired Ethernet Module with 4 Digital Inputs

#### **CEN-IO-IR-104**

Wired Ethernet Module with 4 IR Ports

## CEN-IO-RY-104

Wired Ethernet Module with 4 Relay Ports

#### IRP2

IR Emitter

#### **CSP-LIR-USB**

IR Learner

### **CNSP-XX**

Custom Serial Interface Cable

SW-3SERIES-BACNET-50+.

#### Notes:

- Enabling Modular Programming Architecture (MPA) on the MPC3-102
  requires the purchase of one SW-RMC3-10PROG license. The license
  enables support for running up to 10 simultaneous programs on a single
  MPC3-102. The license is not required if running only one program. To
  obtain a license for your MPC3-102, complete the "Request for
  SW-RMC3-10PROG License" form. If you have any questions, send an
  email to license@crestron.com.
- 2. A BACnet/IP license is required. A free license is available to support up to 50 BACnet objects on a single 3-Series control system. A full license must be purchased to enable support for more than 50 objects. The MPC3-102 supports a maximum of 500 BACnet objects when dedicated for BACnet use only. Actual capabilities are contingent upon the overall program size and complexity. To obtain the license, visit www.crestron.com/bacnetlicense. For additional information, refer to the

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/How-To-Buy/Find-a-Representative or by calling 855-263-8756

The specific patents that cover Crestron products are listed online at www.crestron.com/legal/patents.

Certain Crestron products contain open source software. For specific information, visit www.crestron.com/opensource.



# MPC3-102



# 3-Series® Media Presentation Controller 102

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