

3-Series® Media Presentation Controller 101

- > Wall mount Crestron® 3-Series Control System® automated processor and control panel
- > Mounts flush on a wall or lectern
- > Fits in a single-gang U.S. electrical box
- > Retrofit 2-gang U.S. electrical box adapter available
- > Stylish blue and white backlit capacitive buttons
- > Nine buttons customizable with replaceable icon chips
- > Additional power, volume, and mute buttons plus volume gauge
- > Fully-programmable functionality
- > Auto-brightness control
- > Wakes on proximity detection
- > Adjustable key-click sound
- > Enterprise-class 3-Series® control engine
- > Modular programming architecture (optional)^[1]
- > Built-in real-time clock
- > Astronomical time clock for scheduled events
- > High-speed Ethernet LAN port
- > Onboard Cresnet® network and IR control ports
- > infiNET EX® network support via external gateway (sold separately)
- > Add-on RS-232, relay, and Versiport interface options
- > iPhone®, iPad®, and Android® device control app support
- > XPanel computer and web based control with Smart Graphics® technology
- > Crestron Fusion® software room monitoring and scheduling support
- > Crestron XiO Cloud™ service provisioning and management support
- > SNMP remote IT management support
- > Native BACnet™ network/IP support^[2]
- > Installer setup via software, web browser, or Crestron XiO Cloud
- > Drag-and-drop, C#, and symbol based programming environments
- > Full Unicode (multi-language) support
- > Secure access through full user/group management or Active Directory® software integration
- > Hardware level security using 802.1X authentication
- > TLS, SSL, SSH, and SFTP network security protocols
- > FIPS 140-2 compliant encryption
- > Built-in web server and SMTP e-mail client
- > IPv6 ready
- > PoE network powered



The 3-Series® Media Presentation Controller 101 ([MPC3-101-B](#)) 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 MPC3-101-B to control a video display or AV system, adjust lighting and window shades, or any other custom application.

The MPC3-101-B is designed for flush-mount installation in a wall using a single-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 for replacing an older [MPC-M5](#) series controller.

MPC3-101-B 3-Series® Media Presentation Controller 101

Customizable Backlit Capacitive Buttons

The MPC3-101-B 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 white when inactive and blue when active to provide clear indication of what media source or lighting scene is currently selected. Four additional buttons are included at the bottom along with a volume gauge for control of volume, mute, and power. A key click sound can be enabled to provide audible assurance when any button is pressed.

All buttons on the MPC3-101-B are custom programmable to control any device or function. Button backlighting can be set to dim or turn off when idle. Built-in proximity sensing wakes the buttons as you approach, and auto-brightness control maintains optimal visibility of the buttons under varying lighting conditions.

Refer to Figure 1 for a list of supplied icon chips. For information about ordering custom icon chips, please refer to the [MPB3/MPC3-BTN3-B ENGRAVED](#) web page.

No Rack Required

The MPC3-101-B encapsulates the industry's best control technologies in one compact wall mount device that can alleviate the need for a bulky equipment rack. 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. An onboard IR control port enables 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](#) iFiNET 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 MPC3-101-B features an integrated, enterprise-grade 3-Series control processor. Crestron 3-Series delivers a distinctively robust, dynamic, and secure control system platform capable of faithfully managing a room full of disparate technologies. Its Modular Programming Architecture (optional⁽¹⁾) allows the MPC3-101-B 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, and remote management through [Crestron Fusion](#) and [Crestron XiO Cloud™](#) service.

Crestron Fusion® Software Room Monitoring and Scheduling

Crestron Fusion provides an integrated platform for creating truly smart buildings that save energy, enhance worker productivity, and prolong the life-span of valuable equipment. As part of a complete managed network in a corporate enterprise, college campus, convention center, or any other facility, the MPC3-101-B works integrally 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, please visit <https://www.crestron.com/fusion>.

Crestron XiO Cloud™ Service Provisioning and Management

Crestron XiO Cloud is Crestron's unifying cloud-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. It provides a zero-touch solution that allows complete configuration of device settings without any hardware in hand, then simply connect each device on site and let Crestron XiO Cloud push out the settings, licenses, drivers, and firmware updates – automatically and securely – for a quick and painless, ready-to-use deployment.

Ongoing Crestron XiO Cloud services facilitate daily management and monitoring of every device through a single dashboard with comprehensive reporting and logging, live status viewing and alerts, performance metrics and analytics, scheduled actions and updates, and more. As requirements grow and evolve, new features and functionality can be added easily to one or many devices at any time without ever going on site. Crestron XiO Cloud is a subscription-based service offering an adaptable SaaS (Software as a Service) solution with graduated levels of functionality and unlimited scalability. For more information about XiO Cloud, please visit <https://www.crestron.com/xiocloud>.

Enterprise-Grade Security

The MPC3-101-B 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 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 MPC3-101-B 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.

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Flush Mount Installation

The MPC3-101-B is designed to be flush-mounted in a wall using a single-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 MPC3-101-B 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.

SPECIFICATIONS

Control Engine

Crestron 3-Series; real-time, preemptive multi-threaded/multitasking kernel; transaction-safe extended FAT file system; battery-backed non-volatile real-time clock; supports up to 10 simultaneously running programs (license required ^[1])

Communications

Ethernet: 100 Mbps, auto-switching, auto-negotiating, auto-discovery, 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 ^[2], IPv4 or IPv6, Active Directory authentication, SMTP e-mail client, HTTPS web server, HTTPS web browser setup and XiO Cloud client, IEEE 802.3af & 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

IR : (1) 2-pin 3.5 mm detachable terminal block;
IR/Serial output port;
IR output up to 1.2 MHz;
1-way Serial TTL/RS-232 (0–5 Volts) up to 115.2k baud;
([IRP2](#) emitter sold separately)

NET: (1) 3-pin 3.5 mm detachable terminal block;
Cresnet master port

Ground: (1) 6-32 screw;
Chassis ground lug (flying lead with ring terminal included)

Controls & Indicators

Assignable Buttons: (9) Projected capacitive pushbuttons, each may be labeled using one of 25 pre-labeled 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 pushbutton with “mute” icon
-/+: (2) Projected capacitive pushbuttons labeled with “-” and “+” icons for volume control

Volume Gauge: (1) Blue LED multi-segment bargraph for volume level indication

Power: (1) Projected capacitive pushbutton labeled with “power” icon
HW-R: (1) Pushbutton (behind front panel) for hardware reset (reboots the processor)

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

Illumination: Each capacitive button is individually backlit white when inactive and blue when active; auto-brightness control adjusts all back-lighting 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 auto-brightness control

Proximity Sensor

Type: Eye-safe 940 nm laser ranging sensor
Range: Adjustable from 20 to 90 cm (8 to 35 inches)
Detects bodies 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 Watts) PoE Powered Device
Power Consumption: 4.1 Watts typical, 2.8 Watts idle

Environmental

Temperature: 5 to 40 °C (41 to 104 °F)
Humidity: 10% to 90% RH (non-condensing)
Heat Dissipation: 14 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)

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Compliance

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

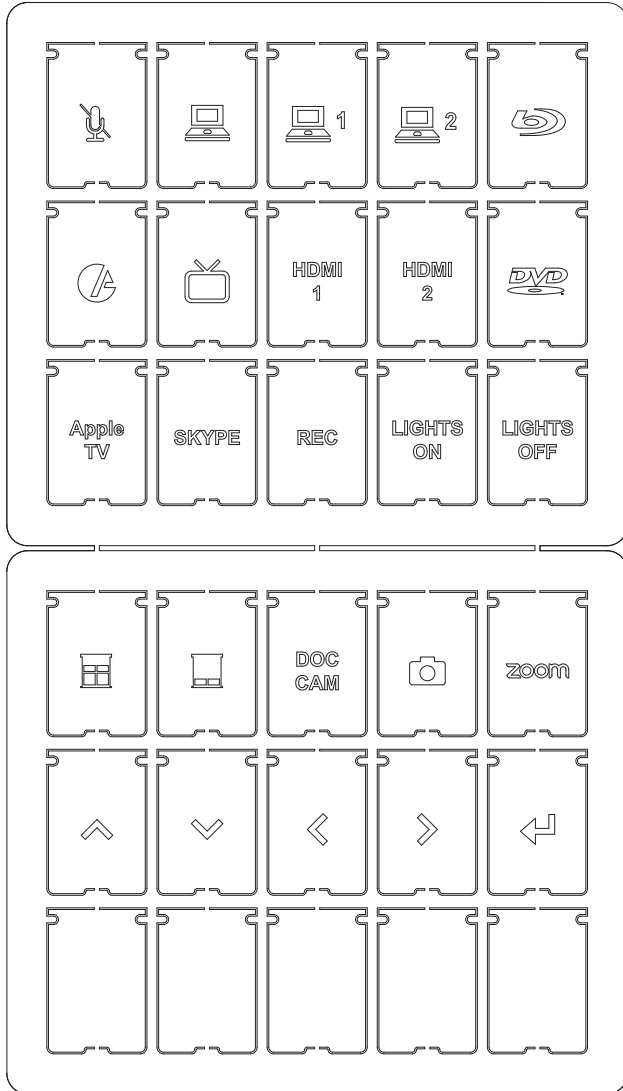


Figure 1: Included Icon Chips

MODELS & ACCESSORIES

Available Models

MPC3-101-B: 3-Series® Media Presentation Controller 101, Black

Available Accessories

MPB3/MPC3-BTN3-B ENGRAVED: Backlit Engravable Icon Chips, Black, Set of 3, Includes Custom Engraving

MPB3/MPC3-BTN3-B BLANK: Backlit Engravable Icon Chips, Black, Set of 3, Engraving Not Included

SW-RMC3-10PROG: 10 Program MPA Support License

MPC3-101/102/201-RMB: Retrofit Mounting Bracket

PWE-4803RU: PoE Injector

CEN-SW-POE-5: 5-Port PoE Switch

CEN-SWPOE-16: 16-Port Managed PoE Switch

SW-XIOC-S Series: Crestron XiO Cloud™ Standard Provisioning and Management Service

SW-XIOC-P Series: Crestron XiO Cloud™ Premium Provisioning and Management Service

SW-FUSION-C-3: Crestron Fusion® Cloud, 250 rooms, 3-year

SW-FUSION-P-L: Crestron Fusion® On-premises, unlimited rooms, lifetime

CRESTRON-APP: Crestron® App for iPhone® & iPod touch®

CRESTRON-APP-ANDROID: Crestron® App for Android®

CRESTRON-APP-PAD: Crestron® App for iPad®

XPANEL: XPanel – Crestron Control® for Computers

SW-3SERIES-BACNET-50+: BACnet™/IP Support for 3-Series®

DIN-CENCN-2: Ethernet to Cresnet® Bridge

DIN-CENCN-2-POE: Ethernet to Cresnet® Bridge w/PoE

CEN-GWEXER: infiNET EX® & ER Wireless Gateway

CENI-GWEXER: infiNET EX® & ER Wireless Gateway – International Version

CEN-CI3-1: 3-Series® Card Interface – 1 Slot

CEN-CI3-3: 3-Series® 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

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Notes:

1. To enable Modular Programming Architecture (MPA) on the MPC3-101-B requires the purchase of one [SW-RMC3-10PROG](#) license. The license enables support for running up to 10 simultaneous programs on a single MPC3-101-B. The license is not required if running only one program. To obtain a license for your MPC3-101-B, please complete the "Request for SW-RMC3-10PROG License" form. If you have any questions, please send an email to license@crestron.com.
2. BACnet/IP license 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 MPC3-101-B 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 <https://www.crestron.com/bacnetlicense>. For additional information, refer to the [SW-3SERIES-BACNET-50+](#).

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 <https://www.crestron.com/How-To-Buy/Find-a-Representative> or by calling 855-263-8754.

The specific patents that cover this and other Crestron products are listed online at <https://www.crestron.com/legal/patents>.

Certain Crestron products contain open source software. For specific information, please visit <https://www.crestron.com/opensource>.

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