

# Massio® 8-Button ControlPad with Volume Knob (US, UK and Europe)

MCP-108-BL (FG2102-08-BL), Black

MCP-108-WH (FG2102-08-W), White



## Overview

The MCP-108 / 8-Button Massio™ ControlPad with Knob combines AMX control and a stylish keypad into a single unit that can be mounted in a standard 2 gang US, UK or EU back box to provide dedicated room control. Massio ControlPads provide high performance, intuitive usability and modern styling, and are simple to configure using AMX's Rapid Project Maker or custom programmed using NetLinx Studio software. The MCP-108 shares its controller technology with AMX's flagship NX-series, enabling it to provide the latest networking and security features, along with outstanding processing power.

## Common Applications

- NX Master Security firmware is ideal for enterprise, education, and government policies requiring secure communication over a computer network in line with security standards expected by the IT industry of any equipment running on an enterprise.
- Massio ControlPads are a perfect solution for huddle spaces and small conference rooms, where Massio's combination of controller, user interface and configuration with RPM provides an inexpensive way to add AV control to small spaces

- The MCP-108's security features and secure wall-mount options make it ideal for Higher Education breakout rooms and small classrooms.
- The MCP-108's rugged design and attractive price point also make it perfect for K-12 (Primary Education) classrooms.

#### Features

- **Cryptographic Support** – In accordance with FIPS 140-2, a U.S. government computer security standard used to accredit cryptographic modules for the protection of sensitive or valuable data
- **IPv6** – Supports Internet Protocol version 6 (IPv6), the communications protocol that provides an identification and location system for computers on networks and routes traffic across the Internet
- **IEEE 802.1X** – Supports IEEE Standard for Port-based Network Access Control with the ability to grant or deny network access to devices wishing to attach to a LAN based on credentials tied to the device rather than to a user
- **X.509 Certificate Services** – NX supports customer-provided certificates for access to protected networks.
- **TLS / SSH Client** – Provides NetLinx programmers the ability to manage secure port TLS and SSH communications with a remote device or server
- **Network Syslog** – The Central Controller generates an audit record of events using syslog, a standard for message logging
- **Unrivaled Network Security** – With IPv6 and wired 802.1X for protected network access and user-defined LDAP login group support, Massio ControlPads provide rock-solid security
- **All-in-one Keypad/Controller** – Unique product combines an elegant yet rugged user interface with an onboard controller
- **Includes AMX Control** – Incorporates AMX's flagship NX-series control technology, including the latest networking and security features and outstanding processing power
- **One Tool to Program - RPM** – Radically reduces total cost of ownership by reducing the time and cost required to configure or program a system from days to less than an hour
- **Simple to Program with RPM** – Radically reduces total cost of ownership by reducing the time and cost required to configure or program a system from days to less than an hour
- **Simple Integration with RMS** – Using RPM, easily integrate RMS with the MCP-108 to provide a platform for real-time performance monitoring and maintenance
- **Elegant Industrial Design** – Complement the rest of the AMX user interface product family and look great in any room
- **Large Buttons / Larger More Descriptive Text** – All buttons are easy to read with large supplied labels, or easily make your own for a customized solution
- **Display Monitoring** – Use the ControlPad with RMS to monitor power status, input status, lamp hours and filter hours
- **Web-based Control** – Remotely login to ControlPads and execute button presses
- **Inactivity Timer** – Turn off equipment after lack of activity (timeouts) to save energy
- **Built In Control Ports** – Serial and IR ports available to communicate and control common presentation equipment
- **Backlit Buttons** – Can flash or turn on/off when pressed
- **Execute Multiple Functions at Once** – Macros can be written to trigger multiple functions through a single button press
- **Works with AMX IR Files** – Leverage thousands of pre-existing AMX IR files on AMX.com
- **Standard Enclosures** – Standard back box mounting options for US, UK and EU
- **Native Direct Connection to RMS** – No proxy required

#### Specifications

GENERAL	
Dimensions (HWD)	4 11/16" x 6" x 1" (119 mm x 152.5 mm x 26 mm)
Weight	Approximately .41 lbs (.19 kg)
Mounting Options	Mount onto standard 2 gang US, UK, or EU back boxes
Colors Available	Black: MCP-108-BL (FG2102-08-B) White: MCP-108-WH (FG2102-08-W)
Regulatory Compliance	FCC CFR Title 47 Part 15

	<p>CE EN 55022  CE EN 55024  CE EN 60950-1  IEC-60950-1  UL 60950-1  C-Tick CISPR 22  IC CISPR 22  VCCI CISPR 22  RoHS  WEEE</p>
Included Accessories	<ul style="list-style-type: none"> <li>• (1) metal mounting bracket</li> <li>• (1) 2-pin female connectors</li> <li>• (1) 3-pin female connectors</li> <li>• (1) sheet of 70 pre-printed button labels</li> <li>• (2) M3.5 x 30MM screws</li> <li>• (2) #6-32 x 1.25 screws</li> </ul>
Recommended Accessories	<ul style="list-style-type: none"> <li>• NSS-RPM Rapid Project Maker (NSS-RPM)</li> <li>• MKP-106 6-Button Massio Keypad (US, UK, EU), (FG5793-06P-W, FG5793-06P-B, FG5793-06L-W, FG5793-06L-B)</li> <li>• MKP-108 8-Button Massio Keypad with Knob (US, UK, EU), (FG5973-08L-W, FG5973-08L-B)</li> <li>• NXA-ENET8-2POE Gigabit Ethernet Switch (FG2178-63)</li> <li>• PS-POE-AF-TC PoE Injector, 802.3AF Compliant (FG423-83)</li> <li>• CC-NIRC IR Cables (FG10-000-11)</li> <li>• CBL-ETH-FL2 Cat6 Ethernet Cable (FG10-2194-16)</li> <li>• CBL-ETH-FL Ethernet Cat5e Flat Cable (FG10-2182-16)</li> <li>• EXB-IRS4 ICSLan IR/S Interface, 4 IR/S and 4 Inputs (FG2100-23)</li> <li>• EXB-COM2 ICSLan Serial Interface, 2 Ports (FG2100-22)</li> <li>• EXB-REL8 ICSLan Relay Interface, 8 Channels (FG2100-20)</li> <li>• EXB-I/O8 ICSLan Input/Output Interface, 8 Channels (FG2100-21)</li> <li>• EXB-MP1 ICSLan Multi-Port, 1 COM, 1 IR/S, 2 I/O, 1 IR RX (FG2100-26)</li> </ul>
Front Panel Components	8 Buttons, 1 Volume Knob with Push Mute, 7 Digit LED Indicator

<b>ACTIVE POWER REQUIREMENTS</b>	
Fully loaded with I/O Port utilized	11 W (max)
Typical	5 W
Voltage, DC (Typical)	PoE (37 V-57 V)
Voltage DC Range	37 V-57 V per 802.3af spec
Power Connector	(1) RJ-45 Ethernet

<b>POWER SUPPLY</b>	
External, Required	Any POE injector or switch, conforming to the 802.3af standard including AMX's PS-POE-AF-TC (FG423-83), not included

ENVIRONMENTAL	
Temperature (Operating)	32° to 104° F (0° to 40° C)
Temperature (Storage)	14° F to 140° F (-10° C to 60°C)
Humidity (Operating)	5% to 85% RH

ETHERNET	
Ethernet Connection	(1) 10/100; Port provides TCP/IP communication. This is an Auto MDI/MDI-X enabled port, which allows you to use either straight-through or crossover Ethernet cables. The Ethernet Port LEDs show communication activity, connection status, speeds, and mode information

CONTROL PORTS & INDICATORS	
RS-232 Port	(2), 3-position 3.5mm Screw Terminal; 300 - 115,200 baud
IR Serial Port	(2), 2-position 3.5mm Screw Terminal; IR Transmit / 1-way Serial ports  Support high-frequency carriers up to 1.142 MHz  2 IR/Serial data signals can be generated simultaneously
I/O Channels	(2) 4-position 3.5 mm Screw Terminal; 2-channel binary I/O port for contact closure with each input being capable of voltage sensing
Relay Connection	(1) 4-position 3.5mm Screw Terminal; (2) single-pole, single-throw relays  Each relay can switch up to 24 VDC or 28 VAC @ 1 A  Each relay is independently controlled
Program Port	(1) USB Mini-B, USB
ID Pushbutton	Reset factory settings, reset factory image, toggle between DHCP or static IP addressing mode

MEMORY	
Flash	4 GB
Memory Card	4 GB SD
DDRAM	256 MB

For a detailed pictorial drawing please visit: <http://www.amx.com/products/MCP-108.asp>

**About AMX by HARMAN**

Founded in 1982 and acquired by HARMAN in 2014, AMX® is dedicated to providing AV solutions for an IT World. AMX solves the complexity of managing technology with reliable, consistent and scalable systems comprising control, video switching and distribution, digital signage and technology management. AMX systems are deployed worldwide in conference rooms, classrooms, network operation/command centers, homes, hotels, entertainment venues and broadcast facilities, among others. AMX is part of the HARMAN Professional Group, the only total audio, video, lighting, and control vendor in the professional AV market. HARMAN designs, manufactures and markets premier audio, video, infotainment and integrated control solutions for the automotive, consumer and professional markets. Revised 11.08.16 ©2016 Harman. All rights reserved. Specifications subject to change.

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