

X-MCA Series Datasheet

- Controls any bipolar stepper motor or actuator with high resolution using an integrated 1.0 Arms (1.4 A peak) per phase driver with customizable micro-stepping
- Uses AutoDetect to identify and configure Zaber peripherals
- Intuitive ASCII protocol simplifies complex automation tasks
- Designed for easy mounting to panels, breadboards, lab benches, DIN rails and enclosures
- Supports single-ended motor encoders for closed-loop control

X-MCA Series Overview

The X-MCA is a high resolution, small form factor stepper motor controller for bipolar stepper motors and actuators up to 1.0 Arms (1.4 A peak) per phase. An optional indexed knob provides convenient manual control for versatile operation even without a computer.

This is our most compact stand-alone controller available. It has been designed to fit in tight spaces and provide a range of mounting options including 90 degree stacking and 35 mm DIN rail mounting via optional accessories AB158 and AB159.

An intuitive ASCII interface allows the user to easily communicate with the device through Zaber Console (our free software), as well as third party terminal programs.

When daisy-chained with several units, the X-MCA can share a single power supply with multiple X-Series products.

[Click here](#) to see the list of devices the X-MCA can control.

For more information visit: <https://www.zaber.com/products/controllers-joysticks/X-MCA>

X-MCA Series Part Numbering

X-MCA Series Drawings

X-MCA Series Specifications

Specification	Value	Alternate Unit
AutoDetect	Yes	
Communication Interface	RS-232	
Communication Protocol	Zaber ASCII (Default), Zaber Binary	
Maximum Current Draw	Motor and supply voltage dependent	
Power Supply	24-48 VDC	
Power Plug	2-pin Screw Terminal	
Controller Maximum Current Per Phase	1000 mA	1418 mA peak
Motor Connection	D-Sub 15 female	
Default Resolution	1/64 of a step	
Data Cable Connection	Locking 4-pin M8	
Manual Control	Indexed knob with push switch	
Axes of Motion	1	
LED Indicators	Yes	
Operating Temperature Range	0 to 50 °C	
Vacuum Compatible	No	
RoHS Compliant	Yes	
CE Compliant	Yes	
Limit Sensors per Axis	2	
Weight	0.070 kg	0.154 lb

Contact

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