Zaber Technologies Inc.
#2 - 605 West Kent Ave.
Vancouver, BC

1-604-569-3780 *Direct*
1-888-276-8033 *Toll Free*
1-604-648-8033 *Fax*

X-MCA 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

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X-MCA 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 Launcher (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?part=X-MCA

X-MCA Part Numbering & Options

Part number: X-MCA

X-MCA _

Options	
None	**Manual control (this part)**
-S	No manual knob

X-MCA Drawings

• X-MCA.png (Drawing for the X-MCA)

• View all drawings and documents at zaber.com

X-MCA Specifications

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Overview

Specification	Value
AutoDetect	Yes
Manual Control	Indexed knob with push switch
Axes of Motion	1
LED Indicators	Yes
Weight	0.07 kg (0.154 lb)

Positioning Performance

Specification	Value
Default Resolution	1/64 of a step

Encoder & Sensing

Specification	Value
Limit Sensors per Axis	2

Motor

Specification	Value
Motor Connection	D-Sub 15 female

Power and Communication

Specification	Value
Communication Interface	RS-232
Communication Protocol	Zaber ASCII (Default), Zaber Binary
Data Cable Connection	Locking 4-pin M8
Power Supply	24-48 VDC
Power Plug	2-pin Screw Terminal
Maximum Current Draw	Motor and supply voltage dependent
Controller Maximum Current Per Phase	1000 mA (1418 mA peak)

Environmental & Compliance

Specification	Value
Operating Temperature Range	0 to 50 °C
CE Compliant	Yes
Vacuum Compatible	No

Contact

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