

Modular Motion Controller | MMC-100

The MMC-100 is a piezo motor controller/driver. It allows speeds beyond > 2 mm/s with our patented multi-phase piezo motor at resolutions of 1 nm. Multiple units can be stacked as a compact multi-axis module and interface with a computer via a single USB 2.0 or RS-485 cable. MICRONIX Motion Control Language allows for easy programming through simple ASCII commands.

KEY FEATURES

- Integrated controller for stick-slip, multi-phase piezo stages
- Compact, modular design allows for bench-top or 2U height rack mounting
- Open loop resolution down to 1 nm
- Closed loop resolution down to 1 nm (dependent on encoder)
- A quad B differential or sin/cos analog encoder feedback
- USB 2.0, RS-485 interface (one interface for up to 16 axes)
- Windows GUI and LabVIEW VI

TECHNICAL DATA

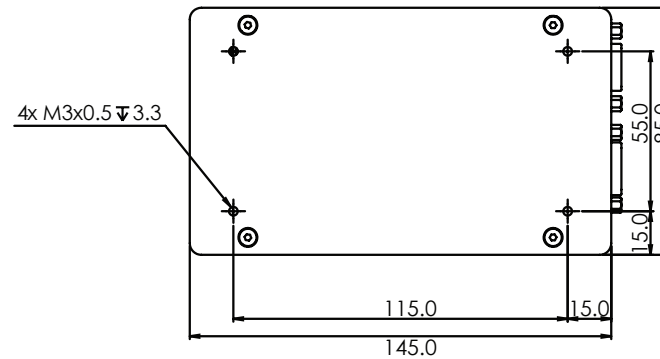
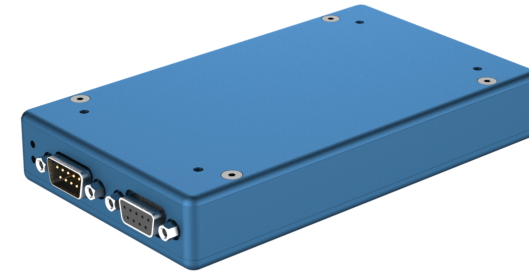
Axes	1, stackable up to 16
Motor type	Piezo Motor, PM-002
Interface	USB 2.0, RS-485
Commands	ASCII commands
Power	Regulated 5 V DC (1 A per axis)
Speed, max	> 2 mm/s (stage dependent)
Resolution	1 nm (open loop), 1 nm (closed loop)
Trajectory mode	Trapezoidal velocity profile
Trajectory update frequency	1 kHz
Servo clock frequency	10 kHz
Program storage	16 storable programs
Enclosure dimensions	L145 x W85 x H25 mm
Software	Windows GUI, LabVIEW VI

ORDERING INFORMATION

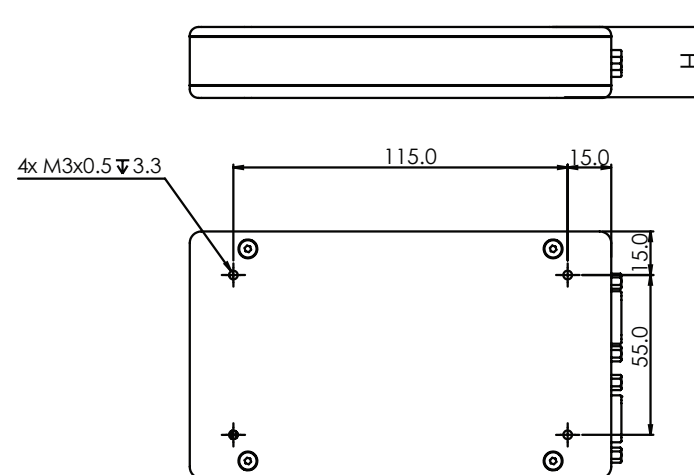
MMC-100- 0

AXES	1 Axis 1	0
	: :	
	Up to 16 Axes [†] #	
POWER SUPPLY	5 W 0	
	25 W 1	
	36 W 2	
ENCODER INTERFACE	Analog (1 V _{pp}) 0	
	Digital (RS-422) 1	

[†] please contact support for larger stacks



Axes	H
1	24.4
2	41.2
3	58
4	74.8
5	91.6
6	108.4



Specifications are subject to change without notice.