Modular Motion Controller | MMC-203

The MMC-203 is an integrated stepper motor controller/driver designed to be used as a standalone 3 axis unit. The MMC-203 is capable of driving 3 stepper motors with a resolution as fine as 2000 microsteps per fullstep in open loop and a closed loop resolution of 50 nm. MICRONIX Motion Control Language allows for easy programming through simple ASCII commands.

KEY FEATURES

- Integrated controller/driver for stepper motor stages
- Closed loop resolution down to 50 nm (dependent on encoder)
- A quad B differential or sin/cos analog encoder feedback
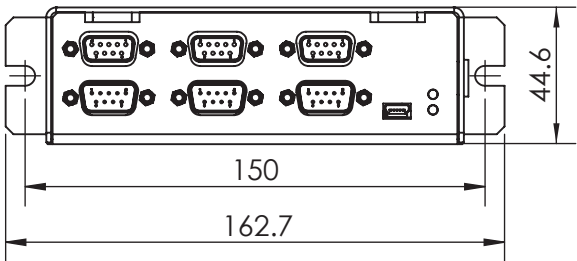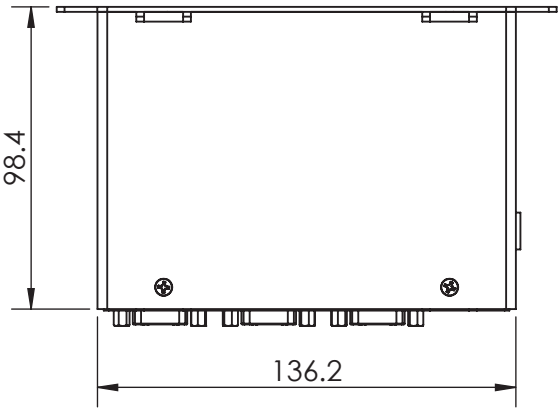- USB 2.0 or RS-485 interface
- Windows GUI, and LabVIEW VI

TECHNICAL DATA

Axes	3
Motor type	Stepper Motor
Interface	USB 2.0, RS-485
Commands	ASCII commands
Power supply	Regulated 24 V DC (1 A)
Speed, max	10 mm/s (stage dependent)
Resolution	100 nm (open loop), 50 nm (closed loop)
Trajectory mode	Trapezoidal velocity profile
Trajectory update frequency	1 kHz
Servo clock frequency	5 kHz
Program storage	16 storable programs per axis
Enclosure dimensions	L98 x W136 x H45 mm
Software	Windows GUI, LabVIEW VI

ORDERING INFORMATION   MMC-203- [0] [1] [1] [ ] [0]

AXES	3 Axis 1
POWER SUPPLY	40 W 1
ENCODER INTERFACE	Analog (1 V$_{pp}$) 0
	Digital (RS-422) 1

98.4

136.2

44.6

150

162.7

micronix USA
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