Modular Motion Controller | MMC-103

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The MMC-103 is a high performance integrated piezo motor controller/driver designed to be used as a standalone 3 axis unit. The MMC-103 is capable of driving 3 piezo motors 3 mm/s in open loop with a resolution of down to 1nm. The closed loop resolution is dependent on the resolution of the encoder. MICRONIX Motion Control Language allows for easy programming through simple ASCII commands.

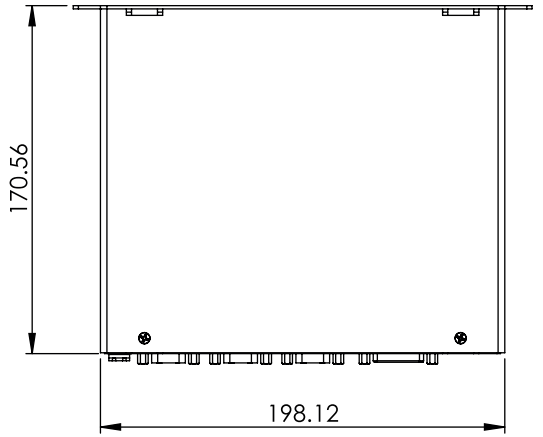
Not recommended for new designs

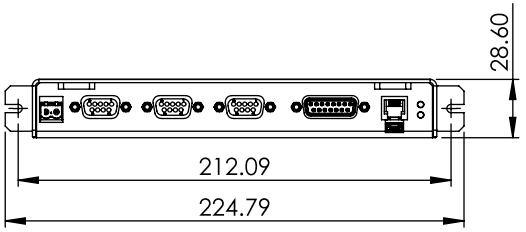
KEY FEATURES

- Integrated controller for piezo motor stages
- 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 or RS-485 interface

TECHNICAL DATA

Axes	3
Motor type	2-Phase Piezo Motor
Interface	USB 2.0, RS-485
Commands	ASCII commands
Power supply	Regulated 48V DC
Speed, max	3 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 per axis
Enclosure dimensions	L171 x W198 x H29 mm
Software	Windows GUI, LabVIEW VI





ORDERING INFORMATION

MMC-103- | **0** | **1** | **0** | | **0** |

AXES	3 Axis	**1**
POWER SUPPLY	60 W	**0**
ENCODER INTERFACE	Analog (1 V_{pp})	**0**
	Digital (RS-422)	**1**