

The MMX-120 is a high-performance single-axis piezo motion control card for piezo-driven actuators and sub-nanometer positioning resolution (stage dependent) with Micronix's patented multi-phase piezo motor technology. Designed to interface with the MMX-RACK, multiple cards can be combined to create motion systems with up to 24 axes in a compact, high-density rack. The cards are easily field-replaceable, making repairs or system configuration updates simple and convenient. The MMX-RACK is sold separately; refer to its datasheet for additional details.

KEY FEATURES

- Open loop resolution down to < 1 nm
- Closed loop resolution down to 1 nm (dependent on encoder)
- A quad B differential digital (RS-422), sin/cos analog, and absolute (BiSS-C) encoder interface
- Designed with MMX-RACK to create a high density controller
- Easily replace or expand number of axis on single system

TECHNICAL DATA

Axes	1, Expandable to 24 with MMX-RACK
Motor Type	Piezo Motor
Interface	USB 2.0, Ethernet 10/100 Mbps (via MMX-RACK)
Commands	ASCII
Input Power	12-48V ***
Motor Output	Max Voltage 48V, Max Current 5A ***
Resolution	1nm**
Trajectory Mode	Trapezoid Velocity Profile
Trajectory Update Frequency	1kHz
Servo Clock Frequency	10kHz
Program Storage	32 storable programs
Card Dimensions	L122.6 x W84 x H15 mm
Software	Windows GUI, LabView VI

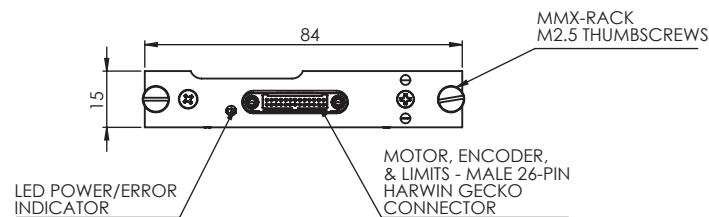
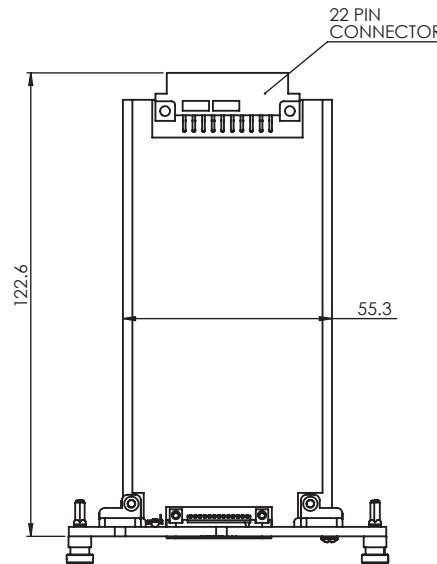
ORDERING INFORMATION

MMX-120 - **0 1 N 1 0**

ENCODER INTERFACE	Analog (1 V _{pp}).....	0	_____
	Digital (RS-422)	1	_____
	Absolute (BiSS C)	2	_____

** dependent on encoder
*** dependent on MMX-Rack

• all dimensions are in millimeters



Specifications are subject to change without notice.