Motion Controller Card | MMX-220

(NEW)

The MMX-220 is a high-performance single-axis motion control card for stepper-driven actuators, with closed-loop positioning resolution down to the sub-micron level (drivetrain screw pitch dependent). Automatic microstepping logic simplifies programming, providing smooth, precise motion with minimal setup. Designed to interface with the MMX-RACK, multiple cards can be combined to create compact, high-density motion systems with up to 24 axes. The cards are easily field-replaceable, making system upgrades and maintenance simple and convenient. The MMX-RACK is sold separately; refer to its datasheet for additional details.

KEY FEATURES

- Closed loop resolution down to < 1 µm (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

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Axes	1, Expandable to 24 with MMX-RACK
Motor Type	Stepper 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	<1µm**
Trajectory Mode	Trapezoid Velocity Profile
Trajectory Update Frequency	1kHz
Servo Clock Frequency	10kHz
Program Storage	32 storable programs
Card Dimensions	L122.6 x W84x H15 mm
Software	Windows GUI, LabView VI

ORDERING INFORMATION

MMX-220 - | 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

22 PIN CONNECTOR

122.6

55.3

84

15

MMX-RACK
M2.5 THUMBSCREWS

LED POWER/ERROR INDICATOR

MOTOR, ENCODER, & LIMITS - MALE 26-PIN HARWIN GECKO CONNECTOR
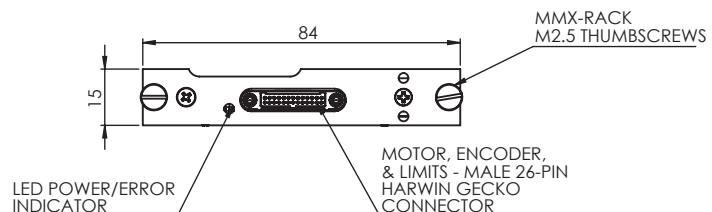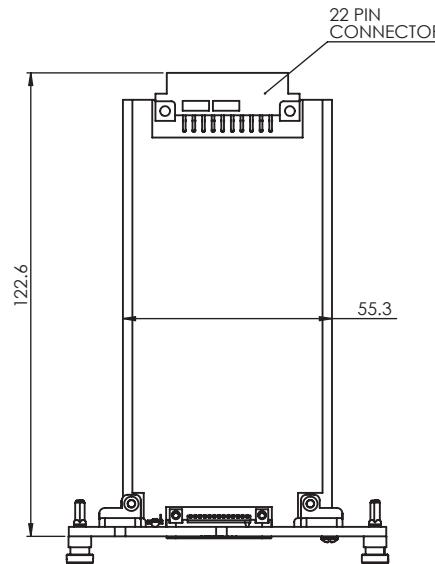
• all dimensions are in millimeters

Specifications are subject to change without notice.

micronixUSA
PRECISION MOTION SOLUTIONS