

# Modular Motion Controller | MMC-Ensemble

The MMC-Ensemble combines the advanced control functionality of Aerotech's Ensemble controller platform with the high precision piezo technology from MICRONIX USA. MMC-Ensemble is a high performance two/four phase piezo motor controller designed to be used as a standalone single axis unit or within a multi-axis Ensemble network. The MMC-Ensemble is capable of driving a piezo motor with a resolution as fine as 1 nm. The closed loop resolution is dependent on the resolution of the encoder.

## Not recommended for new designs

### KEY FEATURES

- Controller/driver for MICRONIX USA stick-slip piezo motors
- Full access to Ensemble suite advanced features
- Configurable as a single driver unit or network up to 10 axis
- Open loop/closed loop operations
- Open loop resolution down to < 1 nm
- Closed loop resolution dependent on encoder
- A quad B differential encoder feedback
- 10/100 BASE-T Ethernet and RS-232 ports
- Dedicated 5-24V Emergency Stop sense input

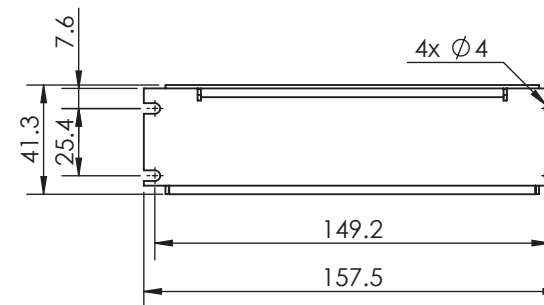
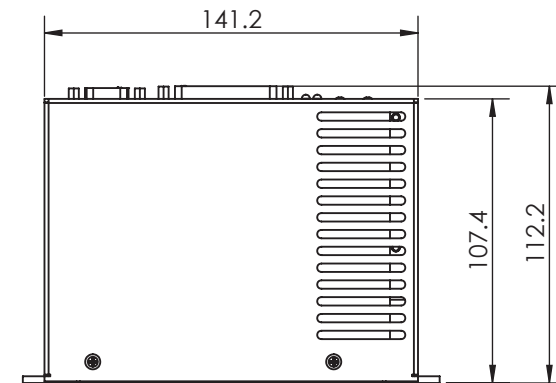
### TECHNICAL DATA

Axes	1 (network up to 10 axes)
Motor type	Piezo Motor
Interface	10/100 BASE-T Ethernet RS-232
Power supply	Regulated 24-36VDC (1A)
Resolution	< 1 nm
Trajectory mode	Trapezoidal velocity profile S-Curve
Servo clock frequency	20 kHz
Enclosure dimensions	L112.2 x W141.2 x H41.3 mm
Software	Aerotech Ensemble Suite

### ORDERING INFORMATION

	MMC-ENSEMBLE-	0	1	0	1	0
<b>AXES</b>	1 Axis .....	1				
<b>POWER SUPPLY</b>	24V, 1A .....		0			
<b>ENCODER INTERFACE</b>	Digital (RS-422) .....			1		

† please contact support for larger stacks



Specifications are subject to change without notice.