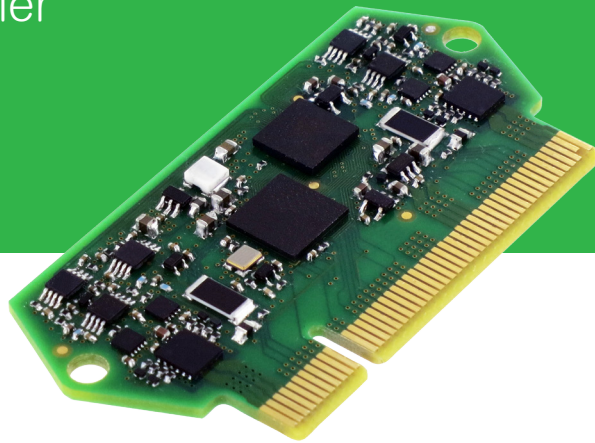


# Lexium Motion Module

## Programmable motion controller

This ultra-compact programmable controller and driver is offered with optional interface boards, motors, and starter kit to speed your motion system design and development.



### Product at a glance

Lexium Motion Module (LMM) is a programmable motion controller with powerful H-bridge driver. LMM delivers the ultra-compact size and flexibility of a chipset, but with the power and features of leading Lexium MDrive integrated motors, including MCode programming language.

Product features include:

- Ultra-compact modular design
- Up to 48 VDC power supply voltage
- 1.5 Amp (RMS), 2.1 Amp (Peak) bridge driver current<sup>1</sup>
- I/O points include: 4 inputs<sup>2</sup>, 3 outputs<sup>2</sup>, encoder input
- Fully programmable motion control with MCode language; CANopen control version option
- Standard PCI Express edge card connector<sup>3</sup>
- Development boards, 1- and 4-axis
- Motors, offered in a range of sizes to match requirements
- Starter kits

<sup>1</sup> Custom power ranges available; may require heatsinking. Min quantities apply.

<sup>2</sup> I/O points are user programmable.

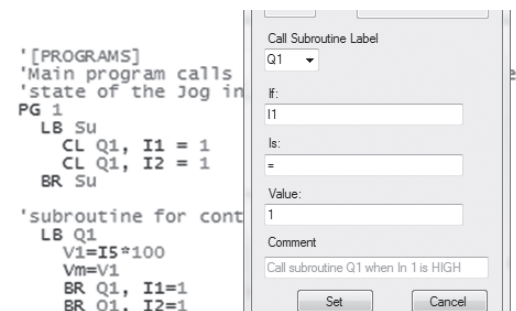
<sup>3</sup> Mates with PCI Express 98 position receptacle, such as Molex P/N 0877159206

### MCode

MCode delivers programming portability.

Intuitive and easy to use, MCode motion programming language supports a range of motion products — from leading MDrive integrated motor products to the LMM / Lexium Motion Module board level solution.

This complete motion control environment allows you to apply the programs you develop via a common platform to the hardware best suited for each application.



MCode software, represented above, can be downloaded at [www.motion.schneider-electric.com](http://www.motion.schneider-electric.com)

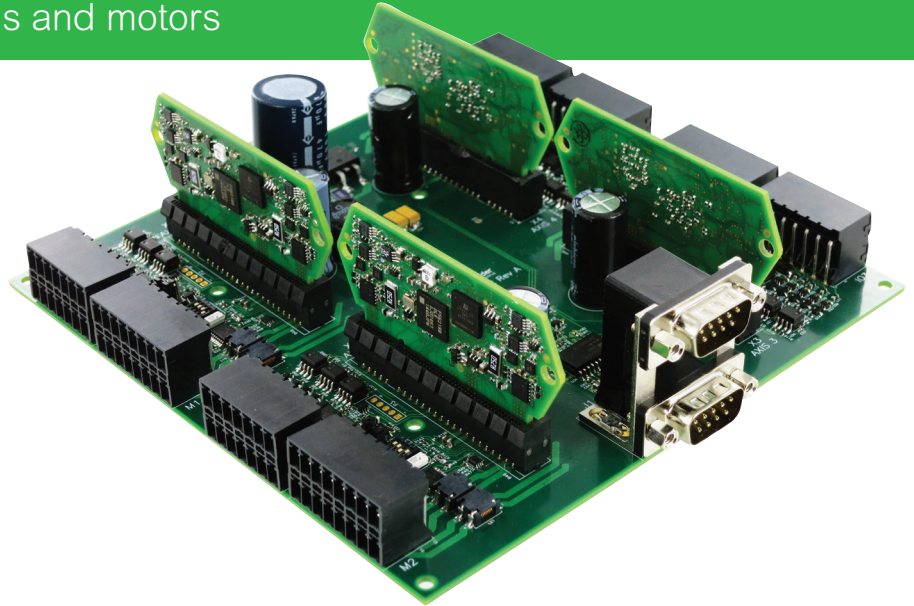
# LMM Systems

PCB module, development boards and motors

## Development boards

Development boards facilitate rapid prototyping and design verification. Both 1- and 4-axis development boards are available.

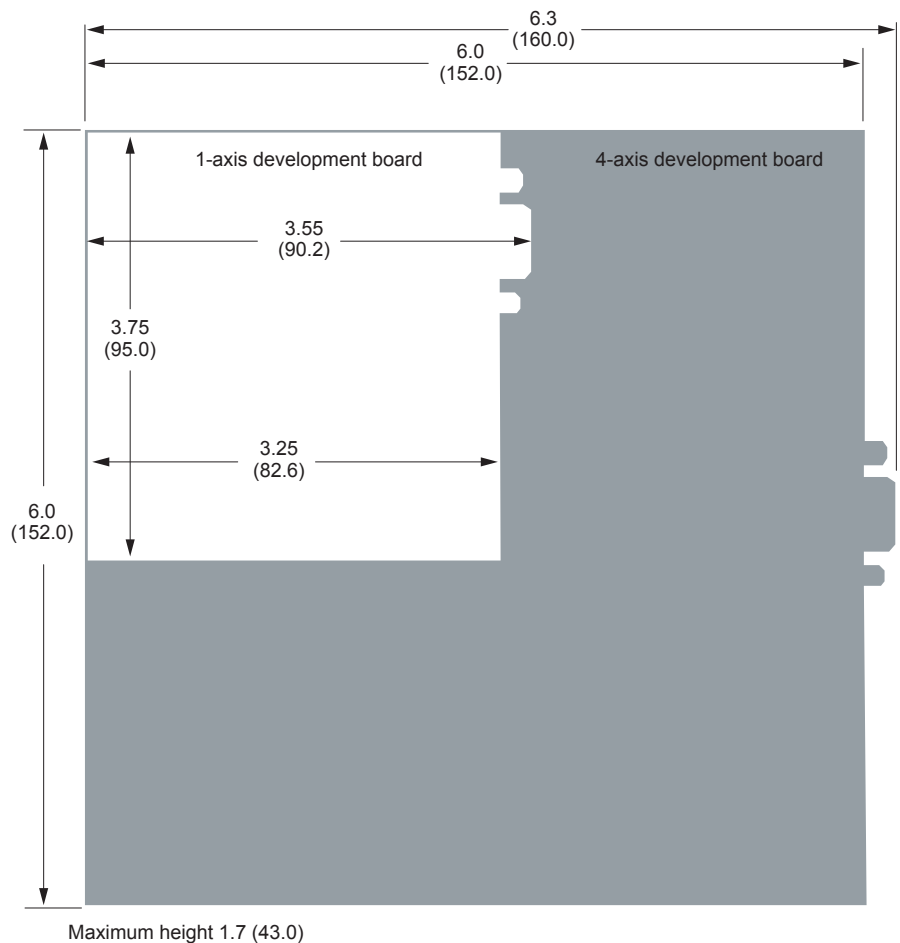
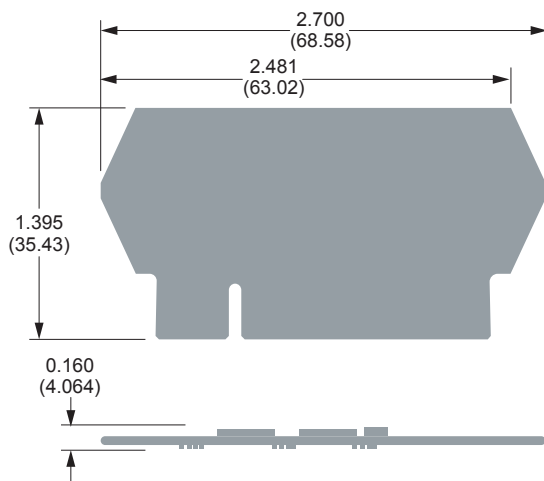
Features include isolated I/O, locking pluggable connectors and serial RS-422/485 programmable motion or CANopen. A serial communication cable with mating DB9 connector is available for plug-n-play USB interface.



Above: 4-axis development board populated with 4 LMM

## Dimensions

inches (mm)



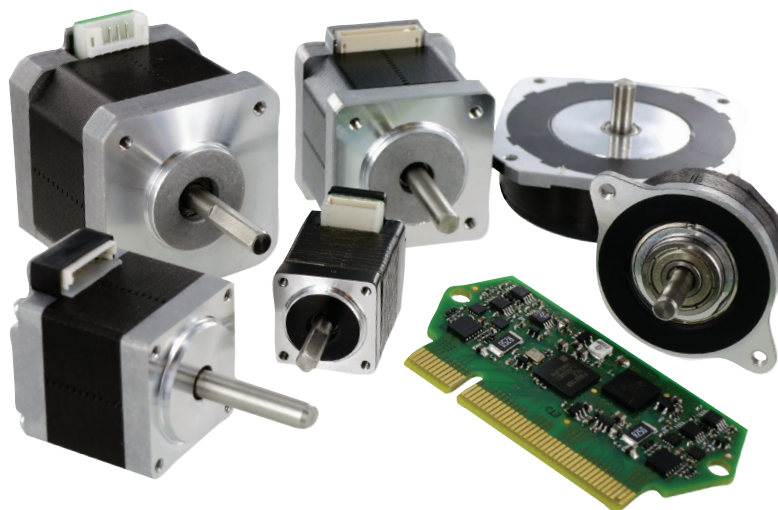
# LMM Systems

PCB module, development boards and motors

## Motors

A variety of motors are offered to support your LMM application. NEMA sizes 8 (20mm), 11 (28mm), 14 (36mm) and 17 (42mm) are used most frequently with 1.5 Amp LMM units. Other motor sizes are available based on system requirements.

Alternate motor styles – from flat pancake to linear – are also available. Inquiries are welcome.



Above: motors, NEMA sizes 8 to 17, shown alongside an LMM

## Starter kits

Starter kits are available to speed prototyping and design verification of the LMM.

Each kit includes:

- 1.5 Amp Lexium Motion Module
- 1-axis development board — RS-422/485 or CANopen
- communication cable
- 24-volt power supply
- NEMA 17 rotary motor & single-ended encoder
- instructions

## Part numbers

Lexium Motion Module	1.5 Amp	Motion Control, serial communication	LMM-15-M
		CANopen	LMM-15-A
Development boards	1-axis	Motion Control, serial communication	LMM-INT1-M
		CANopen	LMM-INT1-A
	4-axis	Motion Control, serial communication	LMM-INT4-M
		CANopen	LMM-INT4-A
Accessories	1-axis starter kit	RS-422/485	LMM-KIT1
		CANopen	
	serial communication cable with DB9 connector		MD-CC404-000

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