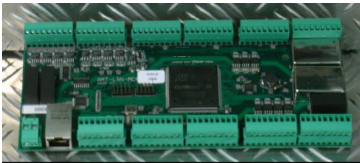
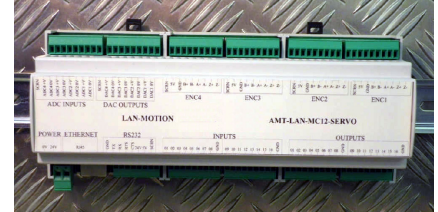


## LAN-MOTION MULTI-AXIS MOTION CONTROLLER

This control card is a LAN based multi-axis servo and stepper motion control card, giving a high level of protection against noise. It is deal for industrial applications, with a comprehensive range of software support and an excellent price performance.



This card can be used in a variety of applications from a simple single axis indexing tool, to a multi-axis profile cutting machine.

The product has been both designed and manufactured in the UK.

### Key Features

- 4-Axis of servo control
- 8-Axis of stepper control
- Smooth continuous path motion
- Circular interpolation
- Linear interpolation on all 12 axes
- Helical interpolation
- 16 Optically isolated digital inputs
- Up to 16 optically isolated digital outputs\*
- Comprehensive software support
- Windows compatible DLL
- 4 Optically isolated differential AB encoder input channels
- Each encoder channel contains a 15bit up/down counter
- 4 Isolated 16 bit analogue output channels
- 4 Isolated 12 bit analogue input channels
- Software GNC Lite (F.O.C.)\*\*

\* 16 Outputs when none of the Stepper channels are being used.

\*\* GNC Full version is not included and chargeable, which will have extra features such as tool radius compensation, DXF and HPGL interface etc.

### Options

#### AMT-LAN-MC8-STEPPER

- Up to 8 axis Stepper Control\*
- 16 digital inputs
- Up to 16 digital outputs\*

\* Each stepper axis used takes 2 digital outputs

#### AMT-LAN-MC12-SERVO

- 4 axis Servo Control
- Up to 8 axis Stepper Control\*
- 16 digital inputs
- Up to 16 digital outputs\*

#### 4A/I

- 4 analogue inputs option

#### DIN

- DIN Rail Mounting Option

\* Each stepper axis used takes 2 digital outputs

## Technical Specifications

### Analogue Output Specification

- 4 x 16 bit DACs, with a 10 volts reference.
- At power on, DAC outputs will be at 0v.
- All DAC outputs can be updated simultaneously under software control
- Each DAC output capable of supplying +/-20mA

### Encoder Input

- 4 x Encoder input channels, each consisting of A, B and Index signals
- Maximum input frequency 250 kHz (4,000,000 quadrature counts per second)
- Internal 15 bit up/down counters used to maintain position registers
- Digital input filter to remove noise spikes

### Analogue Input

- Up to 4 optional 12 bit ADC input channels

### General

- Operating temperature: 0 to +70 degrees C
- PCB Board size: 210mm (L) x 88mm (W) x 25mm (H)
- Din Rail Enclosure size: 212mm (L) x 90mm (W) x 62mm (H)

## Applications

- |  |   |
|--|---|
| <ul style="list-style-type: none"><li>• Motion control and positioning</li><li>• System Automation</li><li>• Process Control</li><li>• Robotics</li><li>• Automatic Welding Machine</li><li>• Profile cutting machines</li><li>• Woodwork Routing Machines</li></ul> | <ul style="list-style-type: none"><li>• Engraving machines</li><li>• Drilling machines</li><li>• Laser cutting machines</li><li>• Water jet cutting machines</li><li>• Glue laying machines</li><li>• Automatic stitching machines</li><li>• Lathes &amp; Mills</li></ul> |
|--|---|

**TYPICAL CONNECTION**

