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 ideal 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*

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* 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*

** 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
- Motion control and positioning
- System Automation
- Process Control
- Robotics
- Automatic Welding Machine
- Profile cutting machines
- Woodwork Routing Machines
- Engraving machines
- Drilling machines
- Laser cutting machines
- Water jet cutting machines
- Glue laying machines
- Automatic stitching machines
- Lathes & Mills
TYPICAL CONNECTION

LAN MOTION 12 BOARD

LAN CABLE TO CONNECT TO ROUTER OR DIRECTLY TO COMPUTER

24V SUPPLY TO POWER BOARD

DAC OUTPUTS FOR SPEED CONTROL OF MOTOR

AC SERVO DRIVE

AC SERVO MOTORS

DRIVE INTERFACE CABLE - DRIVE SPECIFIC CONNECTOR AT ONE END, SPLITTING OFF TO SEPARATE ENCODER, DAC, INPUT AND OUTPUTS (ENABLE, ALARM AND LIMITS). THESE WIRE DIRECT INTO LAN BOARD TERMINALS.