

INMOCO LAUNCHES MAGELLAN® CHIP-BASED MOTION CONTROLLERS FOR DEMANDING MEDICAL, ELECTRONIC, PRINTING & TESTING APPLICATIONS

INMOCO has introduced the Magellan® family of Motion Control Processors from Performance Motion devices (PMD), to provide high performance chip-based motion control in scientific, automation, industrial and robotic applications. The Magellan® processors in combination with PMD's time-saving Pro-Motion® and C-Motion® development software, provide over 20 easy-to-use features to improve OEM machine designs and reduce time-to-market.

The Magellan Motion Control processors are available in 1, 2, 3, and 4-axis versions for the control of DC brush, brushless DC, microstepping, and pulse & direction motors. Providing designers with a quick means of incorporating motion control functionality into demanding machine designs, they are complete integrated motion control ICs, requiring only an external amplifier to be functional.

With its integrated design, Magellan is the core motion control component in a wide variety of applications across industries that require very high position accuracy, reliability and stability. It is at the heart of machines such as clinical blood analysers, semiconductor wafer handling equipment, surface inspection systems, and three-dimensional printing systems. Each of these unique applications is made faster and more accurate by incorporating the Magellan motion control processor.

The Magellan units are driven by a host, using either an 8 or 16-bit parallel bus, CANBus 2.0B, or an asynchronous serial port. User-selectable profiling modes include S-curve, trapezoidal, velocity contouring and electronic gearing. Servo loop compensation utilises a full 32-bit position error, PID with velocity and acceleration feedforward, integration limit, and dual bi-quad filters for sophisticated motion control of complex loads.

Supporting Magellan® is Pro-Motion®, a Microsoft Windows®-based prototyping tool, to rapidly set up, tune, and test motion control systems that use the Magellan® Motion Control Processor.

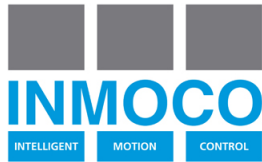
Pro-Motion optimises motion system applications by facilitating the setting and viewing of all parameters, and by the exercising of all features of a motion design. It includes a step-by-step axis wizard that allows designers to quickly and easily tune control loops.

Complementing Pro-Motion® is C-Motion®, the motion control programming library for Magellan that provides a convenient set of callable C/C++ programming routines, which contain all the code required to communicate with and control Magellan within an application. C-Motion enables your application specific C/C++ coding to be easily combined with C-Motion source code libraries. All set-up and development software is included free with Magellan.

Two versions of Magellan are available from Inmoco: the multi-motor MC58000 series controls DC brush, brushless DC, microstepping and the MC55000 series controls pulse & direction motors.

About INMOCO

Established in 1987, INMOCO now offers an extensive range of motion control equipment including: compact servo amplifiers, position controllers, stepper motors, PLC controllers, linear motors, sensors, electric actuators and gearheads. INMOCO's product portfolio is supported by extensive applications and technical expertise, in addition to customer-specified electro-mechanical development and sub-assembly services; including calibrating and testing in a class 10,000 clean room facility.



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