



PressRelease

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For Immediate Release

Galil Introduces Its New Accelera Series of Faster, More Powerful Motion Controllers

Initial entry, the DMC-18x6, represents Galil's fifth generation of motion controllers

Rocklin, CA., July 5, 2005—Galil Motion Control, the industry innovator in high performance, cost-effective and easy-to-use motion controllers and drives, introduces its DMC-18x6 PCI bus motion controller, the first in its newest generation of motion controllers, The Accelera Series. Featuring a powerful, 32-bit Risc-based, clock multiplying processor with DSP functionality, these controllers deliver much higher speed performance and processing power than prior generation controllers. This includes the ability to accept encoder inputs up to 22 MHz, servo update rates as low as 24 microseconds per axis, and command execution speeds as low as 40 microseconds.

“Galil developed the Accelera Series because we understand the need for higher speeds and processing power in applications with demanding specifications,” says Lisa Wade, VP-Sales and Marketing. “The DMC-18x6 provides dramatically faster command execution speeds as low as 40 microseconds per command, which is important in applications requiring very tight synchronization of multiple motion and I/O tasks. The DMC-18x6 also accepts inputs from quadrature encoders at frequencies up to 22 MHz, which is a critical requirement for applications that use very high-resolution feedback sensors. In addition, the faster servo update rate is important for applications which use low inertia, high bandwidth motors. ”

Galil also improved the speed of the DMC-18x6 for step motor applications by increasing the frequency of the stepper pulse output by a factor of two with the maximum pulse rate of 6 MHz.

Available in one- through eight-axis formats, the DMC-18x6 is like all Galil controllers in that the user need only purchase the number of axis required. Each axis is user-configurable for stepper or servo motor operation, enabling the user to easily mix-and-match motor types in an application. It

also retains virtually the same programming language and 100-pin SCSI connector as Galil's prior generation DMC-18x0 PCI controllers, making conversion to the DMC-18x6 quick and easy.

Other high performance features of the DMC-18x6 include:

- Servo loop features such as advanced PID compensation, velocity feedforward, acceleration feedforward, integrator limits, notch filter, low-pass filter, and backlash compensation.
- Expanded memory for variables, arrays and storing application programs.
- Multitasking for simultaneously running up to eight programs and fast I/O processing for precisely synchronizing motion with external events.
- Various modes of motion: point-to-point positioning, position tracking, jogging, linear and circular interpolation, contouring, electronic gearing and ECAM.
- Advanced commands for coordinated motion include ellipse scaling, slow-down around corners, infinite segment feed and feedrate override.
- Optically isolated inputs for enhanced noise immunity.
- Standard inputs for each axis include a forward limit, reverse limit and homing input.
- 8 uncommitted digital inputs and 8 uncommitted digital outputs for the 1- through 4-axis models, and 24 inputs and 16 outputs for the 5- through 8-axis models.
- Expansion for 64 more I/O is available with the optional DB-14064 board.
- 8 uncommitted analog inputs allow the controller to interface with analog sensors such as joysticks and temperature sensors.
- Inputs from two separate encoders are available for each servo axis.

For connection of signals, the DMC-18x6 uses a 100-pin SCSI cable, with one 100-pin cable required for each set of 4 axes. Galil's ICM-2900 interconnect module breaks out the cable into screw terminals to allow for convenient connection of external sensors and drives. As needed, Galil's AMP-19540 4-axis servo drive is available for driving brush or brushless motors up to 500 Watts.

"The Accelera Series is Galil's fifth generation of motion controllers and crowns a 20-year legacy of innovation," adds Wade. "We've also priced the DMC-18x6 like its predecessor, the DMC-18x0 series, in order to keep our commitment to cost-effective motion control for OEMs." The single quantity price for a DMC-1846 4-axis controller is \$2195 and the price in 100- quantities is \$995.

For more details about Galil's new DMC-18x6 Accelera controllers, contact Galil at 800-377-6329 or go to <http://www.galilmc.com/products/accelera/dmc18x6.html>. For specific product or ordering information about any Galil motion controller, contact Lisa Wade, VP-Marketing and Sales, at Galil Motion Control, Inc., 3750 Atherton Road, Rocklin, CA 95765, 800-377-6329, lisaw@galilmc.com, Ph. 916-626-0101, Fax 916-626-0102, www.galilmc.com.

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About Galil Motion Control, Inc.

Privately held and profitable for over 80 consecutive quarters, Galil Motion Control, Inc. was founded in 1983 by Jacob Tal and Wayne Baron. Galil became the first company to produce a microprocessor-based servo motor controller without tachometer feedback. Since then, Galil has continued to advance motion control technology and has found industry-leading acceptance with over 350,000 controllers successfully installed worldwide. Various applications include machines for the medical, semiconductor, machine tool, food processing, and textile industries. Recently, Galil has introduced several motion controllers for the Ethernet, as well as a variety of servo amplifier boards.

Photo caption: Galil's DMC-18x6 Accelera PCI controllers deliver much higher speed performance and processing power than previous generation controllers.

