



PressRelease

Editorial Contacts:

Lisa Wade, Galil Motion Control, Inc.
916-626-0101, lisaw@galilmc.com
Al Bru, AB-Communications
925-828-5103, albru222@aol.com

For Immediate Release

Galil's Ethernet-based DMC-31x3 Flexible-Distributed Controllers Perform Coordinated Motion to Reduce Host Communication Burden

Provides several advantages over control systems using single axis controllers

Rocklin, CA., October 28, 2003—Galil Motion Control, the industry innovator in motion control, now offers their DMC-31x3 Flexible-Distributed controllers designed for machines requiring multi-axis controllers operating in a distributed network. In addition to lowering the controller cost per axis, Galil's DMC-31x3 provides several other advantages over typical distributed systems that consist of single-axis controllers, most notably, its ability to free the host computer from the complex task of motion coordination. Additionally, the DMC-31x3 is Ethernet-based to ensure low-cost, effective communications between various controllers, I/O, cameras and other such devices.

Galil's DMC-31x3 series can be specified for 1-8 axes and is not restricted to single-axis motion controllers. As a result, users have the flexibility to mix-and-match controllers according to their machine requirements. For example, an 8-axis machine may be comprised of either:

- Two DMC-3143 4-axis controllers
- Four DMC-3123 2-axis controllers
- Two DMC-3133 3-axis and one DMC-3123 2-axis controller
- Or, any other combination that totals eight axes.

To lessen the burden on the host, each local, multi-axis DMC-31x3 is fully capable of handling the complex tasks of motion coordination, including linear and circular interpolation. The burden on the host is further reduced when one DMC-31x3 acts as the master controller that receives all the high-level motion commands directly from the host. It then disperses these commands to all the other DMC-31x3 controllers in the network.

As an Ethernet-based distributed control solution, the DMC-31x3 provides several benefits over other networks, including the ability to mix network components and lowering their cost. It is also an intelligent motion controller that only needs to receive high-level commands periodically, and at rates slower than 1 msec. This eliminates any problems associated with non-determinism.

“The DMC-31x3 Flexible-Distributed controller is an alternative to central control solutions such as Galil’s DMC-21x3 Ethernet or DMC-18x0 PCI bus central controllers,” says Lisa Wade, VP-Marketing and Sales at Galil. “We designed this Flexible-Distributed control solution especially for applications in which axes on machines are located far apart, and the wiring between the controllers and motors needs to be minimized.”

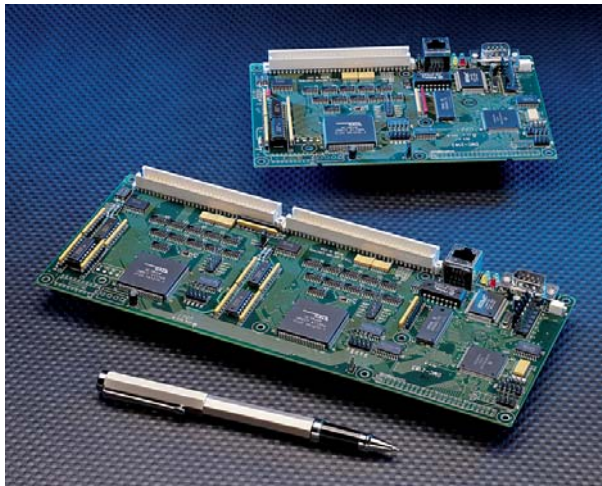
The DMC-31x3 series provides a much lower cost per axis as compared to distributed control systems that are based on single-axis controllers. For example, the DMC-3143 4-axis controller costs only \$795 each in 100 unit quantities, which comes to less than \$200 per axis.

Available with up to 8-axis, Galil’s full-featured DMC-31x3 handles numerous modes of motion (positioning, jogging, linear and circular interpolation, gearing and ECAM), is configurable for stepper or servo control on any axis, provides non-volatile program memory with multitasking, and has plenty of I/O that can be expanded. It also accepts Galil’s full range of amplifier and I/O options that connect directly to the DMC-31x3 without any cables.

For specific information about the DMC-31x3 and the various interconnect, amplifier and I/O options, 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. More information can be found at <http://www.galilmc.com/products/econo/dmc21x3.html>.

About Galil Motion Control, Inc.

Privately held and profitable for over 67 straight quarters, Galil Motion Control, Inc. was founded in 1983 by Jacob Tal, world-famous innovator and educator in motion control. 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 300,000 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.



Galil’s DMC-3143 4-axis controller (top) and DMC-3183 8-axis controller (bottom).