



# PressRelease

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**For Immediate Release**

## **Galil Motion Control Releases DB-28104 Sinusoidal Encoder Interpolation Interface Board**

*Compact board mounts to DMC-21x3 Ethernet controller without any cable*

**Rocklin, CA—January 5, 2005**—Galil Motion Control, the industry innovator of motion controllers and amplifier boards, now offers their new DB-28104 which mounts directly to Galil's DMC-21x3 Ethernet motion controller to perform interpolation of up to four sinusoidal encoders. Compact in size at 3.510 x 3.075-inches, the board delivers much higher position feedback resolution, eliminating the need for more expensive ultra high-resolution encoders.

The DB-28104 accepts quadrature signals from standard sinusoidal encoders and interpolates the signals to achieve a much higher effective resolution. A new software command, AF allows the user to program the number of interpolated counts per cycle. For example, if the encoder cycle is 40 microns, the command AF 10 results in  $2^{10}=1024$  counts per cycle, or a resolution of 39 nanometers per count. When the DB-28104 is used, the maximum allowable speed and acceleration settings are increased to 50 million counts/sec and  $10^9$  counts/sec<sup>2</sup> respectively.

Galil's DB-28104 sinusoidal encoder interpolation interface board is priced at just \$395 in single quantity and \$245 in 100 quantities. Complete specifications and pricing for this product can be viewed at [http://www.galilmc.com/products/accessories/21x3\\_options.html](http://www.galilmc.com/products/accessories/21x3_options.html), or discussed by calling Galil at 800-377-6329.

### **About the DMC 21x3 Ethernet Controller**

The DB-28104 interfaces directly to Galil's DMC-21x3 Ethernet motion controller. Measuring only 4.25" x 7.0" for one through four-axis models and 4.25" x 10.75" for five through eight axes, the DMC-21x3 motion controllers are designed for extremely cost-sensitive and space-sensitive

applications, come in one through eight axis versions, and can control step or servomotors on any combination of axes. Additionally, these card level controllers handle many modes of motion including linear and circular interpolation, contouring, electronic gearing and ecam. The DMC-21x3 can also be purchased with plug-in, multi-axis amplifier boards that eliminate wiring between the controller and drives.

More information about Galil's DB-28104 board, DMC 21x3 or any of its motion controllers and amplifier boards, can also be found by contacting Lisa Wade, VP-Marketing and Sales, at Galil Motion Control, Inc., 3750 Atherton Road, Rocklin, CA 95765, 800-377-6329, [lisaw@galilmc.com](mailto:lisaw@galilmc.com), Ph. 916-626-0101, Fax 916-626-0102, or by visiting [www.galilmc.com](http://www.galilmc.com).

### **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.



Caption: Galil's new DB-28104 sinusoidal encoder interpolation interface board (shown attached to the DMC-2143 4-axis controller)