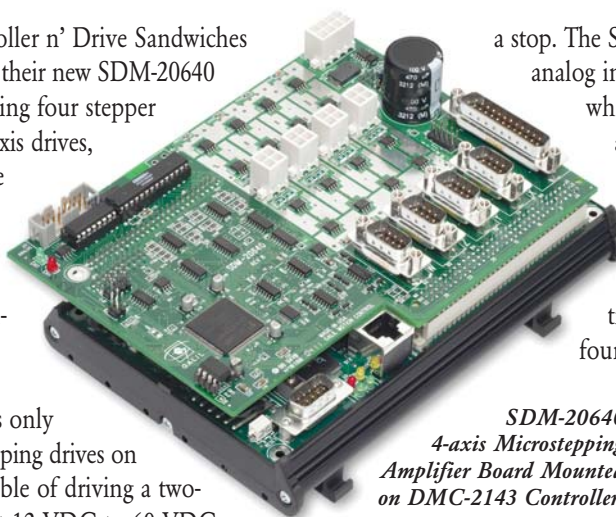


Galil's New Microstepping Drives for DMC-21x3 Controller n' Drive Sandwiches

Galil's family of DMC-21x3 Controller n' Drive Sandwiches continues to expand with the addition of their new SDM-20640 amplifier board designed for microstepping four stepper motors. Like all Galil DMC-21x3 multi-axis drives, the SDM-20640 attaches directly to the 96-pin DIN connector of the controller without any need for a cable. This gives OEMs a cost-effective, multi-axis controller-and-drive solution that eliminates any wiring between the controller and drives.

The compact SDM-20640 measures only 6.92" x 5.10" and contains four microstepping drives on a single board, with each amplifier capable of driving a two-phase bipolar stepper motor operating at 12 VDC to 60 VDC at up to 3.5 Amps. The drives produce 64 microsteps per full step or 256 steps per full cycle, resulting in 12,800 steps/rev for a standard 200-step motor. The maximum step rate generated by the controller is 3,000,000 microsteps/second.

The SDM-20640 has four user-selectable current settings: .5, 1, 2 and 3.5 Amps. In addition to these, it has a user-selectable low-current mode that reduces current power by 75% when the motor is at



SDM-20640
4-axis Microstepping
Amplifier Board Mounted
on DMC-2143 Controller.

a stop. The SDM-20640 also provides 8 uncommitted analog inputs with 12-bit ADC (16-bit optional), which allows inputs from joysticks or other analog sensors to be read by the DMC-21x3 motion controller.

Designed for value-conscious OEMs, the four-axis SDM-20640 is priced at only \$395 in 100 quantity. When combined with a DMC-2143 four-axis controller (\$795 in 100 quantity), the combined amplifier and controller price comes to less than \$300 per axis. Since the SDM-20640 attaches directly to the DMC-2143, there is no additional cabling or inter-connect hardware required, which provides even greater savings.

For applications requiring just two axes, Galil provides the SDM-20620 model. Due to space constraints, only one SDM-20620 or SDM-20640 can be used with a DMC-2183 eight-axis controller. However, Galil's lower power amplifier boards can be used on the second set of 4 axes. For complete specs go to: <http://www.galilmc.com/dmc21x3.html>.

PLUG-IN AMPLIFIER and I/O OPTIONS

MODEL NUMBER	MOTOR TYPE	# OF AXES	CURRENT	VOLTAGE	OTHER	U.S. PRICE (QTY 1/100)
ICM-20100	Interconnect for external drives	4	N/A	N/A		\$95/\$75
ICM-20105	Interconnect for external drives	4	N/A	N/A	Provides optical isolation of I/O	\$195/\$145
SDM-20240	Full and half step	4	Up to 1.4A/phase	12-30 VDC		\$195/\$175
SDM-20620	Microstep	2	Up to 3.5A/phase	12-60 VDC	Includes 8 analog inputs	\$545/\$345
SDM-20640	Microstep	4	Up to 3.5A/phase	12-60 VDC	Includes 8 analog inputs	\$695/\$395
AMP-20340	Brush DC	4	1A max	12-36 VDC	Linear drives	\$195/\$175
AMP-20420	Brush DC	2	3.3A max	20-60 VDC	PWM drives	\$395/\$245
AMP-20440	Brush DC	4	3.3A max	20-60 VDC	PWM drives	\$595/\$295
AMP-20520	Brush DC or brushless DC	2	7A cont 10A peak	18-60 VDC (160 VDC on request)	Includes 8 analog inputs, programmable gains and diagnostics	\$595/\$395
AMP-20540	Brush DC or brushless DC	4	7A cont 10A peak	18-60 VDC (160 VDC on request)	Includes 8 analog inputs, programmable gains and diagnostics	\$795/\$495
DB-28040	I/O expansion	N/A	N/A	N/A	40 digital I/O plus 8 analog inputs	\$295/\$195
Custom (Consult Galil)	Any	Any	Any	Any	Can specify special I/O, connector and size requirements	Nominal tooling fee. 25 unit minimum