

Single-Axis Ethernet Motion Controllers

Features

Intelligent

- 32-bit RISC processor for high speed performance.
- Daisy-chains multiple devices over Ethernet without a hub.
- Non-volatile memory for variables, arrays and user programs.
- Multitasking allows running four programs simultaneously.
- PID compensation with velocity and acceleration feedforward, integration limits, notch filter and low-pass filter.
- Any mode of motion, including jogging, point-to-point, contouring, PVT, electronic gearing and electronic cam.

Powerful

- Internal amplifier provides sinusoidal commutation for driving a brush or brushless, step, or microstep motor.

Flexible

- Available as a card-level or box level controller.
- DC-to-DC converter option for controller accepts single 20-80 VDC input.
- Includes Ethernet and RS232 ports.
- D-type connectors provide convenient interface to external devices.
- Software tools for easy tuning of servo systems in the time or frequency domain.

Dedicated applications engineers

Multiple I/O

- Optically isolated home input plus forward and reverse limits.
- High speed position latch and output compare.
- Uncommitted isolated I/O.
- Uncommitted analog I/O.
- Main and auxiliary encoder inputs.
- Quadrature encoder standard; BiSS, SSI and sine encoder options.
- Expand I/O on Ethernet with Galil's RIO PLC.

delivering world-class support.

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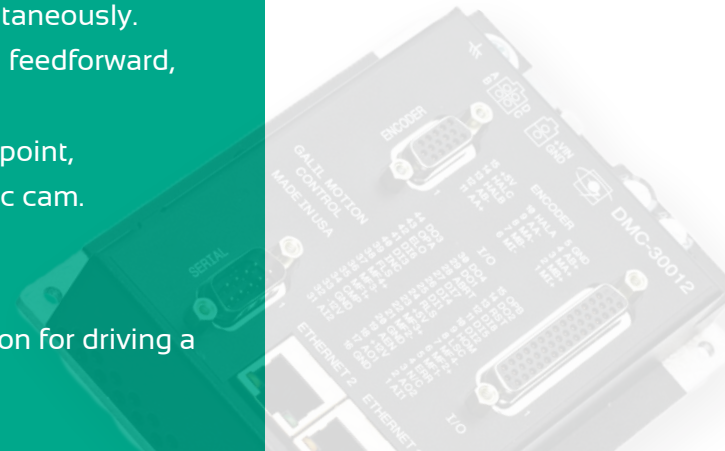


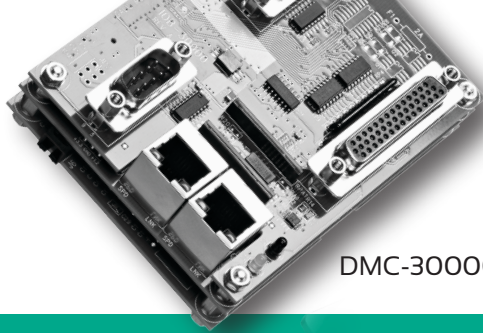
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WE MOVE THE WORLD

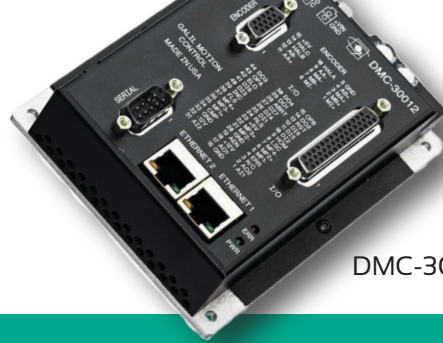
DMC-30000 Pocket Motion Controller

Compact Size, High Speed Performance





DMC-30000



DMC-30012



DMC-30016

DMC-30000 Series Specifications

Specification	DMC-30000
Ethernet	(2) 10/100 Base-T ports; allows daisy-chaining
RS232	1 main port, 115 KB
Maximum Encoder Rate	15 MHz
Maximum Stepper Rate	3 MHz
Minimum Servo Update	125 microseconds
Command Processing	50 microseconds
Program Memory	1000 lines x 80 chr
Array Size	3000 elements
# of Variables	254
# of Uncommitted Isolated I/O	8 inputs, 4 outputs
Optically Isolated I/O	4mA standard; 500mA optional
Analog Inputs	12-bit ADC standard, 2 inputs 0–5V (DMC-31xxx 16-bit, +/-10V)
Analog Output	16-bit standard, 1 output +/- 10V
Voltage Inputs	
DMC-30010	+5V and +/- 12V (no DC-to-DC)
DMC-30011	9–48 VDC, 20–80 VDC optional
DMC-30012/30017	20–80 VDC
DMC-30016	12–30 VDC
Metal Enclosure Dimensions	
DMC-30010-CARD	3.0" x 4.0"
DMC-30010/30011-BOX	3.9 x 4.2" x 1.4"
DMC-30012/30016/30017-BOX	3.9" x 5.0" x 1.5"
Drive Specifications	
DMC-30012	Sinusoidal commutation; brush or brushless servo; 10A RMS cont., 15A peak; 20–80 VDC
DMC-30016	Stepping 1/16; 1.4A per phase; 12–30 VDC
DMC-30017	Microstepping 1/256; 6A per phase; 20–80 VDC
DMC-30010/11	No internal drive; connects to external stepper or servo amplifier of any power range

DMC-30000 Ordering Options

Model	Description
DMC-30010-CARD	Controller card
DMC-30011-CARD	Controller card with DC-to-DC
DMC-30010-BOX	Controller box
DMC-30011-BOX	Controller box with DC-to-DC
DMC-30012-BOX	Controller box with 800Watt sine drive and DC-to-DC
DMC-30016-BOX	Controller box with 1.4A stepper drive and DC-to-DC
DMC-30017-BOX	Controller box with 6A microstepping drive and DC-to-DC
DMC-31xxx	16-bit ADC, 10V analog inputs, accepts sinusoidal or digital encoder input (Adder)

Options

- Din Rail Mounting
- RS422
- 4–20mA Analog Inputs
- 500mA Outputs
- Real-time Clock
- Shunt Regulator
- BiSS and SSI Encoders
- Custom Options Available on Request
- Termination Resistors



Accessories



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