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VMC-2400 & VMC-2800 PCI-XP CONTROLLERS



The VMC-2000 Series PCI-XP Motion Controllers are perfect for both open and closed-loop servo and stepper applications. These full-length PCI form factor boards come standard with either 4 axes (VMC-2400) or 8 axes (VMC-2800) of motion. Using industry standard VHDCI connectors, all I/O signals connect through the front of the board.

Each of the 4 or 8 channels has a dedicated high speed DSP for high throughput and reliable positioning. The 32-bit Dual Port PCI interface operates at the full 33MHz PCI bus speed for fast communication and application control.

The design features high-density VHDCI connectors which allow external connection to all signals. No internal wiring is needed in the PC chassis.

The card is easily programmed using C/C++ to execute complex profiles and change motion parameters using the included motion command library. Drivers are provided for Plug and Play compatibility with Windows operating systems.

Each axis provides a step output, direction output, amp enable output, home input, amp fault input, two differential 12 bit D/A outputs, 2 limit inputs, programmable I/O and quadrature encoder inputs. Optical isolation is provided for 5VDC operation with external devices. There are also 8 general-purpose I/O pins that can be configured by the application.

The built-in encoder interface allows closed-loop position verification from quadrature encoders for each axis at rates up to 10MHz. A High-speed capture input for each axis allows position capture on input state transitions.

DSP's

4 or 8 @ 20MHz

FORM FACTOR

Universal PCI 33 MHz, 32 Bit

AXIS CONTROL

4/8 Axis Step/Direction/Encoder
(10MHz Max Quadrature input)
2.5MHz Max Step Output
(50% Duty Cycle Clock)

AXIS DEDICATED I/O

Line Driver Output:
Step, Direction, General Purpose Output

OPTICALLY ISOLATED @ 5VDC OR 24VDC

Outputs: Amp Enable
Inputs: Home, Fault, Limits, Reset, EStop

ANALOG

DAC Outputs 12 bit +/-10VDC, 16 total

GENERAL PURPOSE I/O

Line Driver: 8 User
Programmable I/O

ENVIRONMENTAL

Operating 0 to 70°C
Storage -40 to 85°C

AXIS CONNECTOR

68 pin VHDCI, 4 total Pin outs shown below

STANDARD FEATURES

- DSP based using the latest digital technology
- Easy to use Windows® 32 bit PCI interface
- Servo and/or stepper control using pulse commands
- Step rates from 1 Hz to 2.5 MHz
- Program S-Curve, Parabolic or Linear ramp profiles
- Accurate accel/decel ramps
- Differential Line Driver I/O for increased reliability
- Optically Isolated I/O for noise immunity
- Encoder inputs for closed-loop operation
- High Density VHDCI connectors for all signals
- High Speed Capture capability
- Programmable user I/O
- Built in Homing algorithms
- Windows motion library software included
- Support for Windows 2000, 95, 98 and NT
- Example C/C++ programs included

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