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*Intelligent
Motion Control
Since 1987*

DCX-VM 300 Series Motion Controller

Note: The DCX-VM300 series motion controllers are no longer recommended for new applications. If you have a new application that requires servo or stepper control, please see the [MultiFlex](#) motion controller family instead.

The DCX-VM300 motion control card features DSP technology and a modular multi-processing architecture first pioneered by PMC more than 20 years ago.

Each DCX-VM300 Series motion controller consists of an intelligent VME control card populated with any mix of up to six (6) intelligent plug-in function modules. Function modules are available for servo control, stepper control, digital I/O, analog I/O, and optional RS-232/422 or IEEE-488 communications.

- High-performance 1-6 axis axis VME-bus servo and stepper controller
- Flexible and powerful modular multi-processor architecture
- Digital and analog I/O expansion options
- I/O signals optionally available on VME P2 connector

- [Detailed Specifications](#)
- [Motion Control Modules](#)
- [I/O Modules](#)
- [Communication Modules](#)
- [External Interconnection Boards](#)
- [Cables](#)
- [User Manuals & Software Downloads](#)



DCX-VM 300 Motion Controller
(click image to enlarge)

Major Features and Benefits

- High-performance VME-bus motion controller
- Advanced RISC, DSP & FPGA technology
- 1-6 axes servo & stepper control
- One DSP chip per axis module, guaranteeing fast and reliable multi-axis performance
- Multi-axis coordinated motion - interpolation, contouring, spline, master/slave, gearing
- Trapezoidal, S-curve and parabolic velocity profiles for smooth jerk-free motion
- 8 KHz PID-FF servo loop update rate each axis (6 axes)

- On-board sinusoidal commutation for smooth and accurate AC brushless servo control
- 64-bit floating point co-processor for ultra-wide dynamic range
- 16-bit analog servo command outputs for superior resolution
- 10 million encoder counts/sec for high-speed/ high-resolution moves
- 5 MHz pulse outputs for high-speed microstepping
- Customizable notch filters
- Open and closed-loop stepper control
- On-the-fly changes in trajectory, direction and PID values
- High-speed I/O includes sub-microsecond position capture inputs & compare outputs
- On-board multi-tasking frees host PC for other tasks
- Consistent real-time behavior: Performance remains as specified no matter which features or axes are enabled
- Additional digital and analog I/O available via I/O plug-in modules
- I/O signals can optionally be accessed via VME P2 connector



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