

# ACR7000 Series

## Multi-Axis Motion Controllers



## ACR7000 Series

The latest addition to the ACR7000 family is a traditional multi-axis motion controller, equally well-suited for new machine designs or as a migration path for the ACR9000. A new Arm® processor powers multitasking, Ethernet and sophisticated motion control in a streamlined package.

Available in 4 and 8 axis configurations, the ACR7000 Controller utilizes the AcroBasic programming language which contains an expansive, proven set of motion and I/O commands for maximum application flexibility. Dual Ethernet ports offers access for PC, PLC and HMI communications. With Ethernet/IP™, the ACR7000 can join a PLC network or access remote I/O modules. Parker Motion Manager software, with all the tools needed to create and optimize applications, unlocks the value of the ACR7000 and puts the machine in motion.

## Contact Information:

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## Specifications

<b>Axes/controller</b>	4 or 8
<b>Processor</b>	800MHz Arm® Cortex®-A8
<b>Trajectory calculation</b>	64-bit precision, every 250-500 µs
<b>User memory</b>	1 MB Flash-based. Retains user programs and system configuration parameters.
<b>Multi-tasking</b>	8 coordinate systems/16 text programs/5 communication channels
<b>Interpolation</b>	Linear, circular, sinusoidal, helical, elliptical, spline, 3D arcs
<b>Servo loop</b>	PID, velocity and acceleration feed forward Notch and LoPass filtering
<b>Input Voltage</b>	24VDC, 30-50W
<b>Command Outputs</b>	Step/Direction @ 2.5 MHz maximum +/-10V analog output @ 16-bit resolution
<b>Digital Inputs</b>	24VDC optically isolated onboard inputs 20 inputs for 4 axes, 40 inputs for 8 axes
<b>Digital Outputs</b>	24VDC optically isolated onboard outputs 4 outputs for 4 axes, 8 outputs for 8 axes
<b>Analog Inputs</b>	8 single-ended (4 differential) inputs @ 16-bit resolution (optional)
<b>Encoder Inputs</b>	20 MHz post-quadrature maximum Software configurable for SSI, quadrature, step and direction, CW/CCW modes 1 per axis + 1 Auxiliary
<b>Motion Enable</b>	Dedicated input disables drives and command outputs
<b>Communications</b>	100 Base-T, 2x RJ-45 connector, Supports TCP/UDP and EtherNet/IP
<b>Development Software</b>	Parker Motion Manager 2.1 and higher
<b>API</b>	Libraries for C++,C#, VB.net, etc
<b>Programming Language</b>	AcroBASIC
<b>Standards</b>	CE (EMC), RoHS



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