

# Motion Controller



ELE-PMC



## FEATURES

- Full Micro-Stepping Motion Control for 8 axes
- Microstepping Pulse Rate up to 1 Million Pulses Per Second
- Stepper Motor (Step/Direction) Control for Each Axis
- Forward/Reverse Limit Switch Interface for Each Axis
- Dynamic On-the-Fly Cross Axis Correction
- 8 Bits Parallel Output on Each of Three DB25f Auxiliary Ports
- 8 Discrete TTL Input/Output Ports for Triggering
- Analog Inputs for Other Sensors
- Ethernet Interface for PC Control

Test with Confidence™

## DESCRIPTION

The Motion Controller (ELE-PMC) is an 8-axis micro-stepping controller allowing simultaneous control of up to 8 motion stages. In a combination planar /cylindrical /spherical near-field antenna measurement system, the ELE-PMC could control X, Y, Z and POL for the XY scanner, and theta, phi and Z motion for the AUT. Below is a block diagram of a typical antenna measurement system, showing how the ELE-PMC connects to the other system components. The ELE-PMC has two general-purpose digital I/O ports that can provide TTL step and direction commands as well as inputs for axis limit switches. These ports are typically used to control one or two Antenna Range Controllers (ELE-ARC), which provide phased motor currents to drive the axis motors.

## ELE-PMC IN TYPICAL APPLICATION

