

# ▶ Integrated Stepper Controller & Drive

## ANG1(E) Integrated Motion Control with Ethernet Interface

### Features

- Built-in EtherNet/IP & Modbus-TCP interface
- Expandable 1 to 6 axes of motion control
- Single network connection for all axes of control
- Servo performance using stepper hardware
- Programs using host controller's software

### Benefits

The ANG1(E) integrates a stepper controller & drive to simplify installation and reduce cabling; with the ability to expand up to 6 axes of motion over a single Ethernet connection.

Hybrid control provides excellent low speed, high torque motion control (like a stepper), and can deliver closed loop performance with encoder feedback (like a servo).


Visit [www.amci.com](http://www.amci.com) to learn about these benefits, and more.

\*Specifications on back



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## Product Specifications

<b>General:</b>		
Supply Voltage: 24 to 48 Vdc Current Rating: 4.0 Arms Protection: Overheat & short circuit Mounting: DIN rail EN 05 022 - 35 x 7.5		
<b>Output Current:</b>		
0.1A - 4.0 Arms selectable in 0.1 amp increments, programmable over EtherNet/IP & Modbus TCP		
<b>Programmable Inputs:</b>		General Inputs: 3 Opto isolated Functions: home limit, over travel limit, capture input, manual jog stop, E-stop, registration, index move  Input Specifications: - Differential optically isolated inputs - Off state voltage: 0 to 1.5 Vdc - On state voltage: 3.3 to 27 Vdc - Input requires 10mA of current to operate  Encoder Inputs: - 5 Vdc differential optically isolated
<b>Motion:</b>		
Steps per Revolution: Programmable between 200 and 32,767 steps		
<b>Communication:</b>		
Interface: Ethernet Bit Rate: 10/100 Mbps Protocol: EtherNet/IP and Modbus-TCP		<b>Available Commands:</b>  - Absolute move - Relative move - Hold move - Resume Move - Immediate stop - Homing - Jogging - Registration move  - Indexed move - Blend moves - Reset errors - Preset position - Preset encoder position - Electronic gearing (only when the ANG1(E) is configured to use a quadrature encoder)

## Ordering Information

**ANG1E:** Master Controller  
with integrated network connection

**ANG1:** Expansion Controller  
no network connection

Connectors:	AMCI Part Number:	Wire Gauge Recommendation:
I/O Connector	MS-2x11	28-16 AWG
Motor Connector	MS-4M	28-16 AWG

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