

# IANF2

## Motion controllers



### SPECIFICATIONS

Part Numbers	IANF2E (2-axis stepper controller master module with Modbus TCP) IANF2 (2-axis stepper controller expansion module with Modbus TCP)
Network availability	Modbus TCP
Motion capabilities	Two independent single axes or interpolation (circular & linear)
Number of channels	(2) channels
Servo drive compatibility	Rockwell Automation Ultra 1500 Rockwell Automation Ultra 3000 Mitsubishi Electric MR-J3-A Panasonic Minas-A Yaskawa SGDH Sigma II Most other servo drives...
Stepper drive compatibility	AMCI SD series drives Most other stepper drives
Maximum output frequency	1MHz differential, 100KHz open collector
Position range	(+/-) 1,073,741,823
Absolute move commands	Two Axis Motion Absolute move / relative move Jog move / blend move / registration move / encoder follower Interpolated Moves Absolute or Relative Linear or Circular Moves
Auxiliary inputs:	CW limit switch or E-stop input CCW limit switch or E-Stop input Home limit switch Capture input External input
8 to 24V DC sinking	
Encoder feedback	(1) per axis: A, B, and Z differential inputs
DC supply requirements	120mA @24V DC
Output control signals	5 V DC differential line driver 24V DC open collector Step and direction or CW/CCW selectable

### INCLUDED CONNECTORS

MS-2x11	I/O connector
MS-4M	Power connector
IC-5	Interconnecting stack connector

### PRODUCT DESCRIPTION

IANF2 modules offer two independent motion control axes that function in an open-loop configuration, or closed loop using the available encoder feedback. Each axis can be used to drive a stepper or a servo with step/direction input capability. The IANF2 can synchronize its two axes, giving you the ability to control linear and circular motions in an XY plane.

Moreover, AMCI-IDECA IANF2 expansion modules allow you to easily interface up to 12 motion axes using a single network connection, which reduces physical wiring and streamlines network traffic.

No other product rivals the flexibility, performance, and value of AMCI-IDECA IANF2 Motion Controllers.

### KEY FEATURES

- 2-axis motion controllers with expansion capabilities
- Expand up to 12 axes
- Interpolated motion (circular & linear)
- Encoder feedback for closed loop motion control
- Use for Servo or Stepper control
- Simplified programming with WindLDR macro instructions