

MOTION COORDINATOR

RACK MOUNT

PRODUCT CODE: P159

EURO 209

- Compact And Cost-effective 8 Axis Motion Controller
- For Stepper or Servo Axes
- Communications Processor
- Optional 8 DAC outputs
- Daughter Board Slot For Expandibility
- Fast programming via Ethernet Port

The Motion Coordinator Euro209 is a Eurocard stepper/servo positioner with the built-in ability to control up to 8 servo or stepper motors in any combination. In addition a single Trio Daughter Board may be fitted to allow the control of additional axes or a digital drive interface allowing control of up to 16 axes.

The Euro209 is designed to provide a powerful yet cost-effective control solution for OEM machine builders who are prepared to mount the unit and provide the power supplies required. It is designed to be configured and programmed for the application with Multi-tasking Trio BASIC using a PC, and then may be set to run "standalone" if an external computer is not required for the final system. The system software for the Euro209 allows up to 7 Trio BASIC programs to be run simultaneously on the controller using pre-emptive multitasking.

Communications

The Ethernet port allows fast data communication between the Euro 209 and PC and gives the ability to program multiple cards over an Ethernet LAN.

The Euro209 has one RS-232 port and one RS-485 built in that may be configured to run the MODBUS protocol for PLC or HMI interfacing.

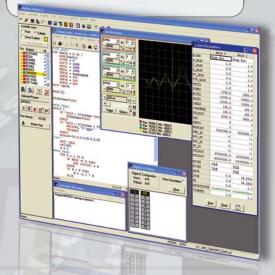
If the built-in CAN channel is not used for connecting I/O modules, it may optionally be used for CAN communications or as a DeviceNet Slave.

Ethernet, USB and Profibus daughter boards may be fitted to provide additional communications options.

The Euro209 features a total of 16 axes in software. Any axes not having a hardware interface can be used as a "virtual" axis. Standard axis or multi-axis digital drive daughter boards may be added to the Euro 209.

Programming

- Multi-tasking Trio BASIC programmed using Motion Perfect
- Trio PC for Active-X



Digital Drives Systems Supported

- SERCOS II
- Control Techniques SLM
- CANopen

Factory Communications Options

- DeviceNFT
- Profibus
- ModbusModbus TCP

Axes

- 16 software axes
- 9 physical axes



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EURO 209 SPECIFICATION

Part Number

Size 129mm x 170mm Overall

(100mm x 160mm PCB) 25mm deep

Weight 160g

0-45 degrees Celsius Temperature Range

Power Supply 5V

Maximum Number Of Axes 8 (9 using daughter board)

Bi-directional Port **Built In Encoder Inputs:** 8 @ 6MHz Built In Stepper Outputs: Built In Encoder Emulation: (Line Driver) RS422 8 @ 2MHz 8 @ 2MHz

4 or 8 @ +/-10V 16 Bit Resolution Optional Analogue Outputs

Servo Cycle Time 1000us, 500us, or 250us Built In Inputs 16 x 24V Opto-isolated **Built In Outputs** 8 x 24V Opto-isolated

Built In Bi-directional I/O

Built in Analogue Inputs 2 @ 0-10V 12 Bit Resolution

Inputs Functions Forward Limit / Reverse Limit / Datum / F Hold 1 Solid State - 24V @ 100mA Max Current Watchdog Relay

Daughter board Slots

SD Card Standard SD card compatible to 2Gbyte

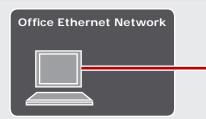
User Memory 1 Mbyte **Table Memory** 32000 values

2 Fast Tasks + 5 Normal Tasks Multi-tasking

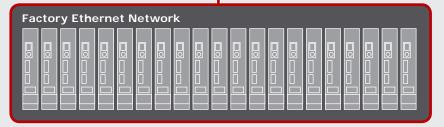
BUILT-IN FACTORY COMMUNICATIONS

Modbus TCP, *Motion* Perfect programming, Telnet, Active-X, CANopen, DeviceNet slave, Trio I/O Communications

Ethernet Connections 1 x Programming Serial Ports RS232 / RS485 / Modbus 1 @ 1MBAUD max CAN Ports



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Feature Enable Codes

The EURO 209 is supplied as standard with axis 0 and 1 configured as a stepper axes. Software "Feature Enable Codes" can be purchased and then entered using Motion Perfect to enable axes 2 - 7 for either servo or stepper operation. Axes 0 - 7 can also be set as servo axes using "Feature Enable Codes" with the addition of the 4 or 8 axis DAC Module.



P447 - EURO 209 DAUGHTER **BOARD MOUNTING KIT**

Required to fit any daughter board to EURO209 - Includes double width face plate.



PI84 - 4 AXIS DAC MODULE

Provides 4 16 bit outputs and 4 16 bit analogue inputs for the Euro 209

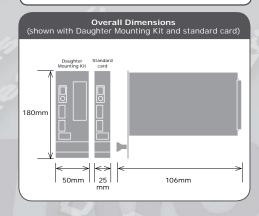


PI85 - 8 AXIS DAC MODULE

Provides 8 16 bit outputs for the Euro 209



P183 - ADDITIONAL ENCODER AXIS PI82 - ADDITIONAL STEPPER AXIS



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