

C-809.40

4-Channel Servo-Amplifier / Motion I/O Interface for NI Motor Controllers

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C-809.40 Amplifier / Interface with NI PCI 7344 Card and two PI micropositioning stages.

- Compatible with National Instruments Controllers
- Integrated Analog and PWM Amplifiers for 4 Channels
- Plug & Play Operation
- Uses Standard 68 Pin NI Connection Cable
- 37-Pin Interface for Auxiliary and I/O Lines



Many users of National Instruments (NI) motor controllers

use PI micropositioning systems. To simplify setup and operation of such systems, PI has developed the C-809.40 amplifier, which permits interconnection of up to four PI micropositioning systems and an NI controller such as the 7344.

Ordering Information

C-809.40
4-Channel Servo-Amplifier / Interface for NI Motor Controllers

In addition to linear amplifiers, the unit includes analog to PWM converters and circuitry to adapt PI's differential encoder signals to the single-ended signals required by NI controller.

The automatic analog to PWM conversion makes it possible to operate micropositioning systems with integrated PWM amplifiers. To facilitate neat and professional installation, all encoder, motor control, limit and reference switch signals are available on individual 15-conductor sockets on the front panel. Convenient fan-out of auxiliary and I/O lines from the NI 7344 is also provided via another front-panel sub-D connector.

Technical Data

Models	C-809.40
Function	Amplifier / Interface for NI Motor Controllers
Channels	4
Output power	Analog 6 W/Channel, PWM **: Power for ActiveDrive™ motors is via separate power supplies or sockets on front panel***
Max. power	110-120 W / 24 V, for ActiveDrive™ motors
Current limits	1 A per channel for analog DC motors (short-circuit proof)
* Motor connections	Four 15-pin (f) sub-D sockets
I/O lines	37-pin (f) sub-D socket
Connections on NI controller	68-pin VHDCI motion I/O socket (SCSI-4 type) for NI cable SHC68-C68-S
Dimensions	450 x 105 x 390 mm
Power supply	Wide-range power supply, 90 to 240 VAC, 50 to 60 Hz

* For standard PI linear and rotation stages with DB-15 connectors and DC motors. Motor brake signals are not supported. Ask about compatibility with PILine® piezomotor stages.
 ** The C-809 can be modified to accept PWM signals (instead of analog signals) from NI controllers.
 *** The 24 VDC supply sockets can be used to supply PI micropositioning stages with integrated PWM amplifiers.

Application Examples

- Quality control
- Test equipment
- Micromachining
- Biotechnology
- Micromanipulation
- Microscopy
- Photonics packaging
- Fiber alignment
- Metrology