

C-630

Apollo Motion Controller/Driver for Stepper Motors



- 3-Axis, Compact Stepper-Motor Controller/Driver for 2-Phase Motors
- Up to 50 x Microstep Resolution for Smooth, High-Resolution Positioning
- Network Feature for Multi-Channel Applications
- PIIntelliStage™ Compatible

The C-630 Apollo controller combines a high-resolution motion controller and driver in an extremely small package. The Apollo is a very cost-effective solution for automation, precision measurements or general positioning tasks in research and industry.

Integrated Drives for High-Resolution Motion

Apollo can drive up to three 2-phase stepper motors simultaneously, and feature microstep technology with up to 20,000 steps/rev. for ultra-smooth, high-resolution motion. Limit switch and refer-

ence switch inputs for each axis are provided to protect the mechanics and for easy operation.

Network Capability for Flexible Automation

For control of more than three axes, the Appollo's network functionality comes in handy. Up to three controllers can be linked and controlled over a single interface.

The network may include up to three Apollo controllers or a combination of up to three PIIntelliStages™ (see p. 7-54) and two Apollos.

Each Apollo controller includes software, an RS-232 communications cable and a wide-range power supply for universal operation.

Easy-To-Use Software and Drivers

Windows™ software is provided with Apollo controllers for

easy installation and operation. It is derived from the PIIntelliStage™ Software, and is able to run both Apollos and PIIntelliStages™ in the same window.

Window DLLs and LabView™ Drivers are also provided for advanced programming and integration into existing user program environments.

Ordering Information

C-630.32
 Apollo Controller for 2-Phase Stepper Motors, 3 Axes, RS-232 Interface

M-500.PS
 Power Supply for Apollo Controller (Included in C-630.32)

C-863.633
 Interface Cable for Operation with PIIntelliStage™ Translation Stages (3 m)



Technical Data

Models	C-630.32
Function	Stepper-motor controller and driver for 2-phase motors
Axes	3
Trajectories	Point-to-point, 3D linear interpolation
Motor resolution	Up to 50 x microstep resolution (up to 20,000 steps/rev) with PI stepper motors
Motor current	Up to 800 mA, 24 V, chopped
Limit switches / reference switches / I/O ports (per axis)	4 TTL, programmable
Interface / communication	RS-232 (cable included), 9.6 to 57 kbit/sec.
Daisy-chain function	Up to 3 units
Command set, programming	ASCII command set
Host Software	Windows™ operating software and DLLs, LabView™ Drivers
Motor connectors (per axis)	15-pin (f) sub-D
Operating voltage	24 V DC, provided by external wide-range P/S 85 to 240 VAC, 50 to 60 Hz
Dimensions	260 mm x 145 mm x 45 mm
Weight	1 kg

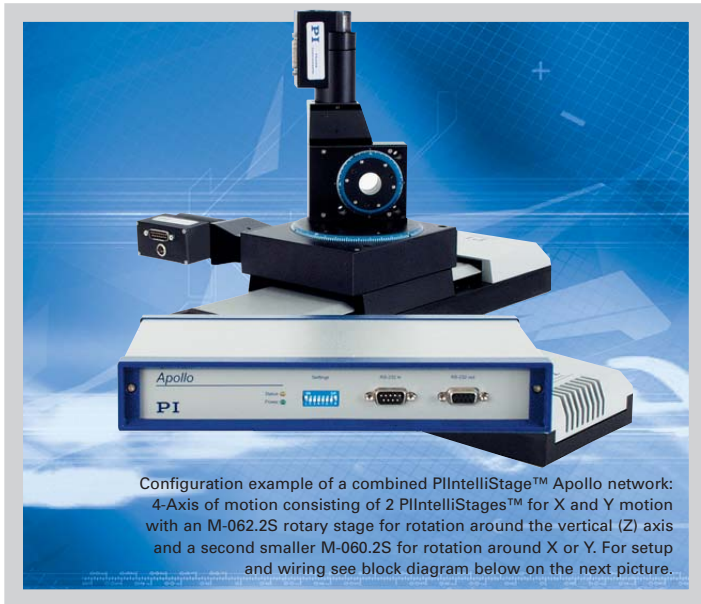
Application Examples

- Flexible automation
- Quality control
- Test equipment
- Photonics packaging
- Fiber alignment

This product family has been replaced by the following new product:

>> C-663 Mercury™ Step Stepper Motor Controller

Piezo • Nano • Positioning



- Piezo Actuators
- Nanopositioning & Scanning Systems
- Active Optics / Steering Mirrors
- Tutorial: Piezo-electrics in Positioning
- Capacitive Position Sensors
- Piezo Drivers & Nanopositioning Controllers
- Hexapods / Micropositioning
- Photonics Alignment Solutions

Motion Controllers

Ceramic Linear Motors & Stages

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