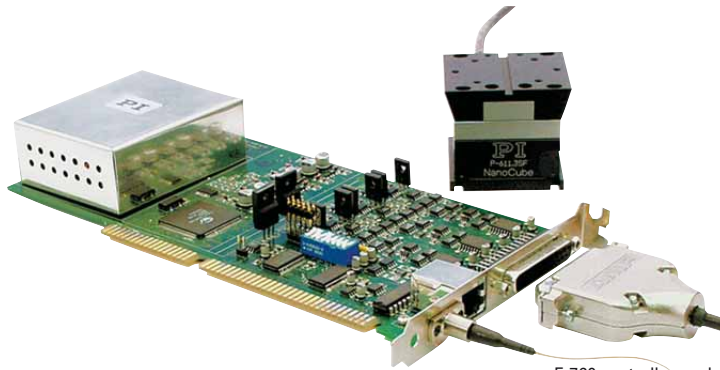


E-760 NanoCube® Piezo Controller Card

For C-880 Automation Controller and F-206 Hexapod Precision Alignment System



E-760 controller card with P-611.3SF NanoCube® XYZ nanopositioning system

- 3 x 9 W Peak Power
- Position Servo-Control
- For P-611 NanoCube® and F-206 HexAlign™ 6-DOF Alignment Systems
- Built-in Optical Metrology for Automated Alignment

The E-760 is a piezo amplifier and position servo-controller card that was especially designed for the P-611 NanoCube® (see p. 2-50) XYZ nanopositioning system oper-

ated together with the F-206, M-824, M-840 or M-850 (see p. 4-6 ff). In addition to three low-noise amplifiers and position servo-controller circuits, it is equipped with optical metrolo-

Ordering Information

E-760.3SV

NanoCube® Piezo Controller, Board for C-880 and F-206 Controller Systems, Photodetector (Visual Range)

E-760.3Si

NanoCube® Piezo Controller, Board for C-880 and F-206 Controller Systems, Photodetector (Infrared Range)

gy and I/O for automatic alignment of photonics components. All functions are accessible via the computer-bus interface. In addition, there is an analog input for position control and an FC connector for the optical metrology. Thus, positioning accuracy and repeatability down to the sub-nanometer range is possible.

Technical Data

Models	E-760.3SV	E-760.3Si	Units
Function	Piezo controller card for P-611 NanoCube® systems	Piezo controller card for P-611 NanoCube® systems	
Axes	3	3	
Sensor			
Servo characteristics	P-I (analog), notch filter	P-I (analog), notch filter	
Sensor type	SGS	SGS	
Sensor channels	3	3	
Amplifier			
Input voltage	-2 to +12 V	-2 to +12 V	
Output voltage	-20 to 120 V	-20 to 120 V	
Amplifier channels	3	3	
Peak output power per channel	9	9	W
Average output power per channel	1	1	W
Peak current per channel, <5 ms	90	90	mA
Average current per channel, >5 ms	8	8	mA
Current limitation	Short-circuit-proof	Short-circuit-proof	
Voltage gain	10 ±0.1	10 ±0.1	
Interfaces and operation			
Communication interfaces	Standard computer bus (ISA); FC-connector	Standard computer bus (ISA); FC-connector	
Piezo / sensor connector	25-pin sub-D connector	25-pin sub-D connector	
Analog input	8-pin connector (piezo); FC connector (optical metrology)	8-pin connector (piezo); FC connector (optical metrology)	
Supported functionality	Visible-range detector	Infrared-range detector	