

MICOS

MOTION CONTROL & OPTICS **USA**

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◀ 5.019 ▶ **SMC-series SMC pci**

Controllers



Key features

- 3 Axes Microstep-Controller System
- High-Resolution-Microstep
- 12 V bus-voltage, external up to 24 V
- 133 MHz RISC Processor with Flash-Memory
- Velocity-range <math><0.1 \mu\text{m/s}</math> with 1 mm pitch
- Linear Interpolation of all axes
- PCI-COM bridge RS-232 115 Kbaud
- Venus-1 compatible string-based command-language
- 2/3 Axes Joystick with/without Touch-Display
- Closed-Loop Mode RS422
- Digital I/O
- Trigger Output
- Position-correction static
- Temperatur-sensor input
- Description, please looking on page [5.010](#)

Technical data

Axes	3 or 2 Axes 2 phase stepper-motors
Computer-Interface	PCI-COM bridge 115200 Baud
Power-Configuration	12 V PC, max. 30 W 2/3 axes 24 V external, max. 60 W . . . 2/3 axes

Limit-Switches	2 per axis software configurable
Trajectory mode	linear interpolation
Velocity-range	<0.1 µm ... 15 rev/s with (200 step motor)
Limit-switches	2 per axis, software configurable
Program & Parameter	Flash-Memory
Amplifier	12 ... 24 V DC, with short-circuit & temperature protection
Phase-current:	max. 1.5 A
Housing	PCI slot HxB 99x184 mm

MOTION CONTROL Systems Positioners MiniPos DirectDrives Controllers ManPos Accessories Vacuum MAC PhotonX M A C

SMC pci Ordering information

SMC pci		Order-No.
3 axes SMC pci	Microstep-Controller	7161-9-001
2 axes SMC pci	Microstep-Controller [ready to use 3 axes with key code upgrade!]	7161-9-002

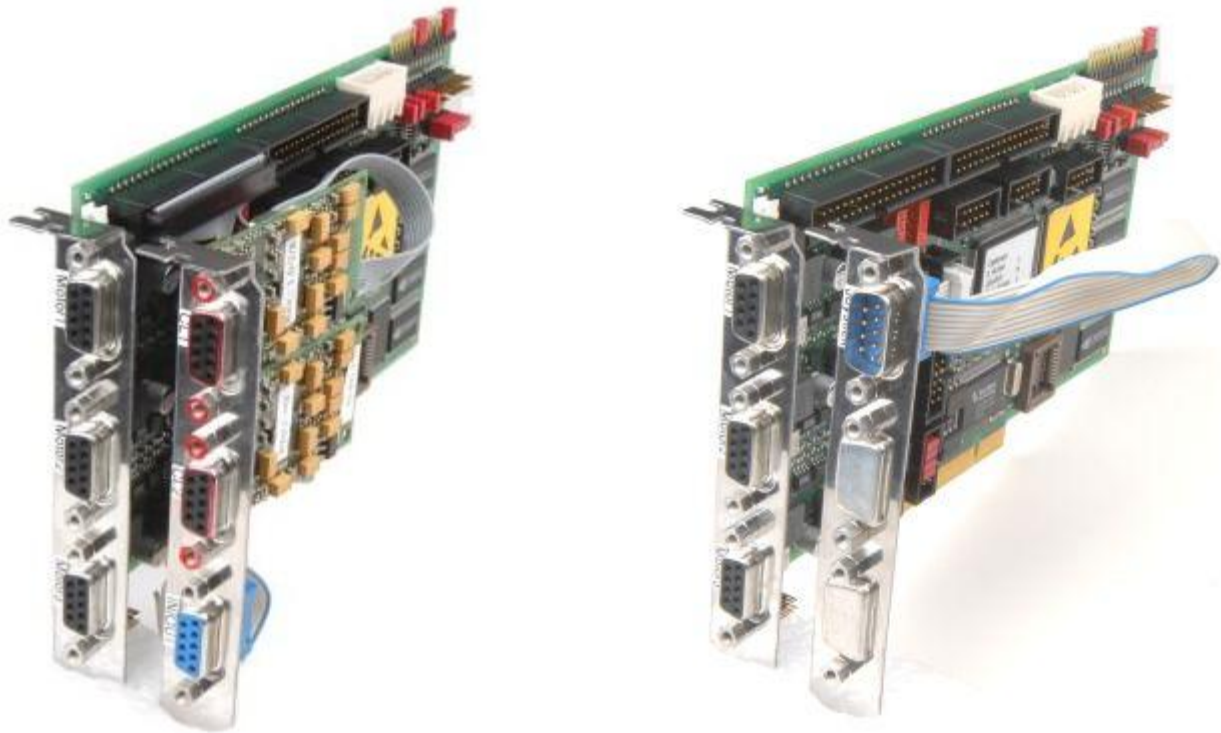
SMC pci-options		Order-No.
Closed Loop	For quadrature encoders RS-422 per axis	7161-9-115
Joystick	Joystick with 2 axes	7161-9-106
Joystick	Joystick with 3 axes	7161-9-107
Joystick	TDisp Joystick with 10 Key-Touch 2 axes	7161-9-108
Joystick	TDisp Joystick with 10 Key-Touch 3 axes	7161-9-109
Hand-Weehl	THand-Wheel with 3 axes selector	7161-9-110
Digital I/O	Digital I/O 3x Inputs (5-24V) 3x Outputs (5-24V)	7161-9-112
Trigger-Out	Trigger-Out function	7161-9-118
StPCor	Static position-correction	7161-9-120
Winpos	Full version Software	7161-9-124
Brake Logic	Brake Logic for one axis	7161-9-125

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ORDERING EXAMPLE

SMC pci & Closed Loop & Digital I/O

SMC pci & Joystick



Founded in 1990, MICOS specializes in the development, manufacturing and marketing of ultra-high precision positioning components and systems for research and industry. We are experts in vacuum, ultra-high vacuum, clean room, and extreme climate environments down to 77 Kelvin. ▶▶

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