

SMC- series



SMC corvus pci

- + 12 V PC
- + PCI plug- in board with onboard microstepping power amplifiers
- + Motor power 12 V (PC power supply) or optional 24 V power supply
- + Communication via PCI com bridge, assures software
- + Compatibility to SMC corvus and SMC corvus eco

Our SMC family is based on modern 32 bit technology which enables performances of stepper motor driven systems which haven't been possible before. A so called sin 2 acceleration offers very smooth acceleration and deceleration of the motors so that positioning in the nanometer range is possible with highest performance. One of the big advantages of our SMC- controllers is the possibility to drive the stages with extreme high resolution.

Specifications

SMC corvus pci	
Axes	2 or 3 Axes 2 phase stepper- motors
Computer Interface	PCI com bridge 115200 Baud
Supply Voltage	12 V PC or external up to 24 V DC
Power Configuration	12 V PC max. 30 W 2/3 axes 24 V external, max. 30 W 2/3 axes
Limit Switche	2 per axis software configurable
Trajectory mode	linear interpolation
Velocity range	<0.1 $\mu\text{m/s}$... 15 rev/ s (200 step motor) (standard) <0.1 $\mu\text{m/s}$... 25 rev/ s (200 step motor) (speed upgrade)
Program & Param.	Flash Memory
Diagnostics	LED at the front with 2 user LED's acoustic messages with integr. buzzer
Amplifier	12 V ... 24 V bipolar 2 Phase with short- circuit & temperture protection
Phase- current	max. 1.5 A
Housing	PCI slot HxB 99 mm x 184 mm
Software Interface	Windows Demoprogram WINPOS- light , DLL's, demo applications (C/ Delphi/ VB) LabVIEW™ VI's and Demoapplication

Order Information

71619002

2 Axes SMC corvus- pci Microstep- Controller

71619001

3 Axes SMC corvus- pci Microstep- Controller

Possible Accessories

71619113

Speed Upgrade max. Speed 25 rev/ s (200 Step Motor)

71619115

Closed Loop for Quadrature Encoders RS422 per Axis

71619116

Closed Loop for sin/ cos 1Vpp Signals for Interpolation 12- Bit per Axis

71619106

Joystick with 2 Axes

71619107

Joystick with 3 Axes

71619108

Joystick with 10 Key- Touch- Display 2 Axes

71619105

Joystick with 10 Key- Touch- Display 3 Axes

71619109

Joystick Interface

71619112
Digital I/O 3x Inputs (5-12 V) and 3x Outputs (5-12 V) with Position Compare Trigger- Output and Position Capture Functionality

71619110
Hand- Wheel with 3 Axes Selector

71619118
StPCor Staic Position- Correction (incl. Stage Measurement) per Axis

71619124
Winpos Full Version Software

71619128
Emergency Stop Button with Interface and Cable l=3m

