Stepper Motor Control SMC 9300

The SMC 9300 is a programmable stand-alone stepper motor controller for simultaneous control of up to 18 motor axes.

The 19"-rack unit is equipped with an Intel embedded CPU, a 7" touch-screen user interface and operates under Windows Embedded Standard 7. The controller communicates via serial- or ethernet interface. Each axis provides home-, limit- and incremental encoder signal input. Please see table below for detailed specifications.
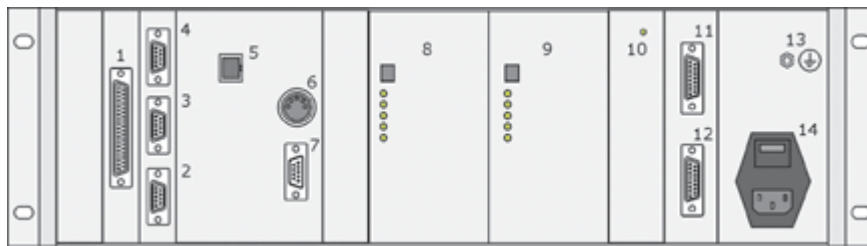
We build your individual motor controller which exactly meets you requirements. According to your specifications, individually equipped, without compromises, cost-efficient and quick.

Alternative system: SMC.IPC

- 19" industrial PC for up to 48 axes,
  allows integration of additional data acquisition hardware

Technical Data:

Number of axes	1-18 (40)
CPU	Intel Embedded
Operating system	Windows Embedded Standard 7
User interface	7" colour TFT touch-sensitive display
Hard disk	2.5" SATA SSD
Communication interfaces	Serial (RS232), Ethernet
Control signals	Limits, Near-home, Home
Encoder input	3-channel differential (RS422, A/B/I)
Firmware update	via Internet download
Online support	TeamViewer Client
Dimensions	19" 3HU rack unit (450 x 300 x 132 mm)
Power supply	115/230VAC 50/60Hz (adjustable), 600VA max.
Weight	approx. 12 kg (depending on configuration)
Environment conditions	Storage: -10°C..+60°C, Operation: +10°C..+40°C, Rel. humidity: 15%...85%
Options	8 bit digital I/O, accessory control via USB, Ethernet or RS232, e.g. Heidenhain EIB7, iCHaus BiSS interface, Joystick.

1 I/O-Port Anschluss
2 Referenz/Endschalter Achse 2
3 Referenz/Endschalter Achse 1
4 Incrementalencoder Achse 1+2
5 Netzwerkanschluss (100baseTX, RJ45)
6 Tastatur
7 Serielle Schnittstelle (RS232)

8 Leistungsendstufe Achse 2
9 Leistungsendstufe Achse 1
10 Netzteil
11 Motoranschluss Achse 1
12 Motoranschluss Achse 2
13 Gehäuse-Erde (M6)
14 Netzbuchse mit Sicherung

The picture below shows the rear panel of a SMC 9302, i.e. a control system for two stepper motor axes.
In this case the motor drivers are integrated to the control unit and separately switchable. The controller is equipped with both serial and network interfaces as standard.

The following options are also available:

- Digital I/O-port (8 in, 8 out)
- Control of filter- and half-screen device for crystallography application
- TTL-counter input for scintillation counter tubes
- Clock and direction outputs for external position monitor.