

4 Axes

PC Smart 4A

A compact PC-based CNC control board capable of simultaneously controlling 4 axes. It offers speeds of up to 500,000 pulses per second.



4 independent and interpolated axes



Axes

Thanks to its 4 interpolated and independently controlled axes, the device provides high-precision motion control for your machine.

Digital Inputs

The system features 16 optically isolated digital inputs that support both PNP and NPN signal types. This capability ensures smooth integration with various industrial applications while maintaining electrical isolation to enhance system safety and minimize the risk of electrical interference.

Parameter

Specification

Axes	4 Interpolated and Independent Axes
Digital Inputs (PNP/NPN, Isolated)	16 Optically Isolated Inputs
Digital Outputs (PNP/NPN, Protected)	8 Protected Outputs
Relay Output	Up to 1 Amp Current
Analog Outputs	2 Protected Analog Outputs (0-10V)
Analog Input	2 Analog Inputs (0-10V)
Pulse Speed	500,000 pulses/sec
Axis Pulse Type	Pulse/Direction
Acceleration Time	50 to 30,000 mm/s ²
Speed Profile	S-Curve
Hardware Buffer Size	2,000 Block FIFO
PC-Control Unit Data Exchange Time	20 milliseconds
Isolation Type	Optocoupler
Communication Type	100 Mbps LAN (TCP/IP)
Communication Distance	Over 20 meters via UTP Over 50 meters via SF/UTP
Hardware Lock	24 Programmable Time Locks with Built-in Clock
Power Consumption	12-24V, 300 mA
Dimensions	25 x 13 cm
Control Mode	Open Loop Control
Operating System	Windows 7, 8, 10, 11
Supported Equipment	Handwheel, Remote Controller, Joystick

Hardware Buffer Size (FIFO)

The 2,000-block FIFO (First-In-First-Out) buffer ensures uninterrupted and smooth data flow. This capacity enhances system performance in applications requiring high data throughput and guarantees sequential execution of commands.

17
year
journey

Where Art and
Technology
Meet Through
the Power of CNC!