

SIEMENS

SIMOTION P320

SIMOTION P320-4 PC-based Motion Control

Powerful – maintenance-free – can be flexibly configured

siemens.com/simotion



PC ON/
WD

RUN/
STOP
L1

ERROR
L2

MAINT
L3

Fulllest motion control functionality compact in an embedded industry PC: SIMOTION P320-4

SIMOTION P320-4 is a powerful, ultracompact and maintenance-free embedded industry PC, which has proven itself even under tough application conditions. The P320-4 combines the ruggedness of a PLC with the full motion control functionality of SIMOTION.

Your benefits

- PC-based solution for all production plants – new and retrofit projects (installation compatibility)
- High performance that can be selected to address your specific application
- Integrated motion control technology package (SIMOTION runtime)
- Integrated PC monitoring functions (watchdog, temperature, ...)
- Flexibility through individual mounting and installation options
- Simplified commissioning and troubleshooting using comprehensive test and diagnostic functions
- Operating control and monitoring functions can be simply integrated
- Visualization using scalable standard SIMATIC panels
- One engineering system for parameterizing and programming (SIMOTION SCOUT)

Windows operating system
for openness

Links two
environments

Real-time motion control –
SIMOTION system

SIMOTION P320-4
Embedded

Performance
Functional scope

SIMOTION P320-4
Standard

Can be universally used:



Packaging



Printing



Plastics



Textiles



Wood



Glass



Metal forming



Renewable energy



Handling



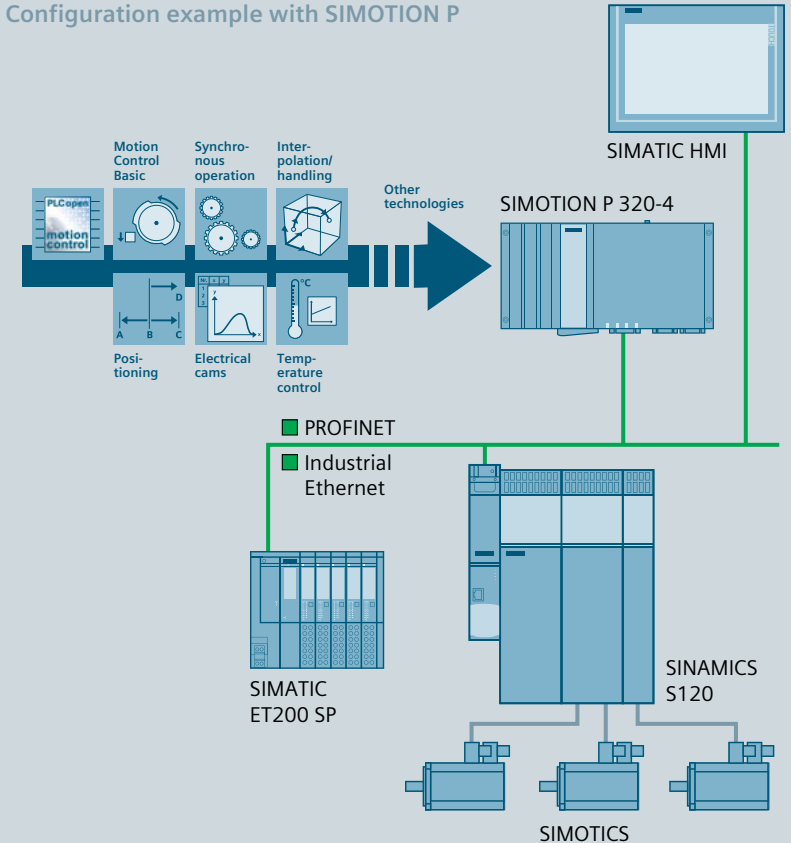
Converting

SIMOTION P320-4 – PC-based motion control

Technical data

Mechanical design/mounting position	<ul style="list-style-type: none"> • Mounting rail • Wall/panel mounting • Book-type mounting, front • Mounting position: horizontal (preferred position) and vertical
Processor	<ul style="list-style-type: none"> • P320-4 embedded: Intel Core i3-3217UE; 2x1.6 GHz, 3M cache • P320-4 standard: Intel Core i7-3517UE; 2x1.7 GHz, 4M cache
Power supply	<ul style="list-style-type: none"> • 24 V DC; 19.2 ... 28.8 V DC • Isolated
Main memory	• 4 Gbyte DDR3-SDRAM
CFast	• Can be exchanged (accessible): 4 Gbyte
SSD (only P320-4 standard internal)	• Internal (not accessible): 80 Gbyte
CFast (only P320-4 embedded internal)	• Internal (not accessible): 4 - 8 Gbyte
Application conditions	• No fan
Operating system	<ul style="list-style-type: none"> • P320-4 Embedded: Windows Embedded Standard 7 • P320-4 Standard: Windows 7 Ultimate
Start of delivery	• SIMOTION SCOUT Version V4.4
Graphics	<ul style="list-style-type: none"> • Integrated Intel HD 2000 or HD 4000 • Resolution DVI: 640*480 pixels up to max. 1920*1200 pixels for 32-bit colors • Resolution display port (>1920*1200 pixels for 32-bit colors) • Graphic memory is taken from the main memory • Dual-head operation to simultaneously connect two monitors (DVI-I and display port) with two different screen contents
Power supply	<ul style="list-style-type: none"> • 24 V DC; 19.2 ... 28.8 V DC • Isolated
Application conditions	• No fan
PC interfaces	<ul style="list-style-type: none"> • 4 x USB 3.0 interfaces • 1 x COM (RS232) • 1 x Ethernet Gbit • 1 x display port (connection ext. monitor, display) • 1 x DVI
PROFINET	• PROFINET on board (3 ports)
PROFIBUS (optional)	• IsoProfibus board, pluggable

Configuration example with SIMOTION P



Siemens AG
Digital Factory
Motion Control
P.O. Box 3180
91050 ERLANGEN
GERMANY

Subject to change without prior notice
Article No.: E20001-A500-P650-X-7600
Dispo 06372
SCHÖ/1000022620 V2.MKSIMO.WES SB 10141.5
Printed in Germany
© Siemens AG 2014

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