

# SIEMENS



## Motion Control

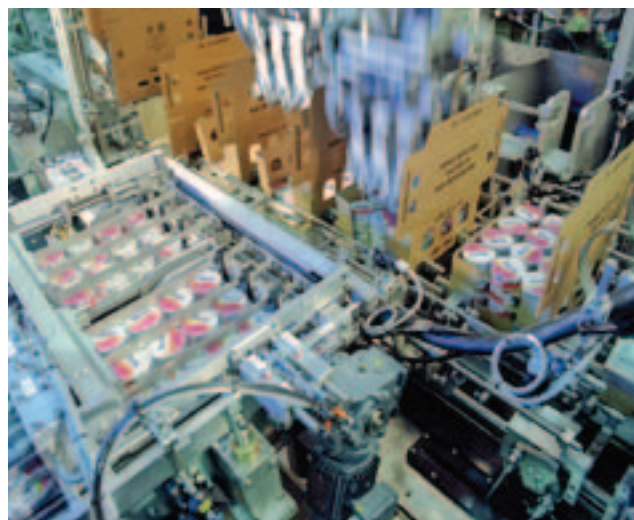
# SIMOTION P320: The open embedded solution for all motion control applications

**SIMOTION – our answer to growing requirements relating to product quality, productivity with continually increasing cycle rates and maximum availability with minimum lifecycle costs. The scalable, highly flexible motion control system sets itself apart in central and distributed machine concepts as well as PC, controller and drive-based solutions. And all of this with user-friendly engineering and fast commissioning – for significantly improved competitiveness!**

### **SIMOTION P320 – flexible and open**

We have taken our well-proven SIMOTION motion control system and innovated it even further to give you SIMOTION P320. The P320 offers you, for the first time ever, all of the well-proven properties of a classic PC-based motion control system – combined with all the advantages of state-of-the-art embedded solutions. The embedded PC can be used as “headless” solution (without display, monitor or panel front). Optionally, a display or monitor can be connected via the integrated DVI interface.

**Additional advantages:** Using SIMOTION IT, for connection based on standard IT protocols, you can access data from the integrated web server – for instance, for commissioning or for diagnostic and service purposes. The SCOUT engineering tool is not required in this case. SIMOTION P320 also excels as a result of its flexible mounting options, to achieve the highest space and cost savings.



[siemens.com/simotion](https://www.siemens.com/simotion)

# Top marks when it comes to ruggedness and performance

## Your advantages at a glance:

### Rugged and maintenance-free

The SIMOTION embedded-PC significantly reduces downtimes and increases system availability as:

- There are no rotating parts (fan and hard disk)
- The PC-based Compact Flash Card can be simply inserted or withdrawn
- Rugged Windows Embedded Standard 2009 operating system
- Process data is reliably saved using the buffered SRAM memory

### High performance and open

SIMOTION P320 complies with the highest performance requirements and can be perfectly integrated into the total solution thanks to the flexible connection options. This is all made possible by:

- State-of-the-art Intel processor and DDR3 memory technology for fast access times
- 4 USB high-current interfaces
- 3 PROFINET ports onboard for configurable cycle rates up to 250 µs

### Compact and ready to switch on

With SIMOTION P320, not only do you save space, but also time and costs – as it is pre-configured and ready to be switched on.

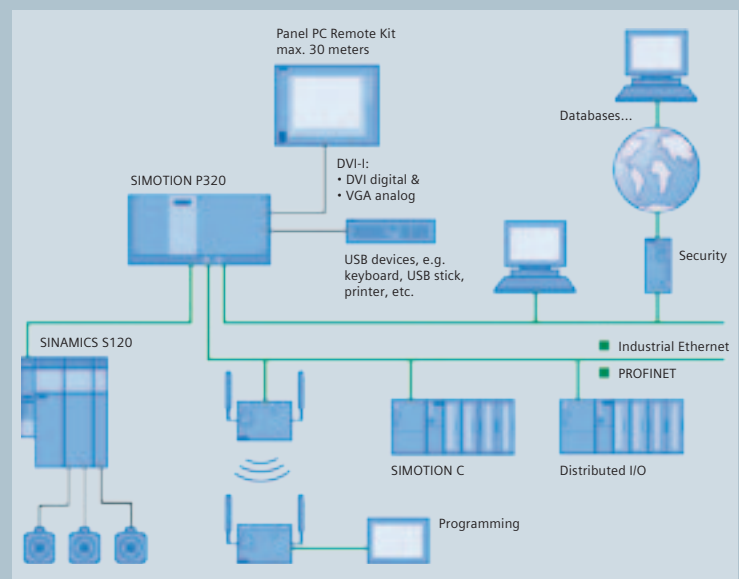
In detail this means:

- Ready to switch on combination comprising well-proven hardware and software for all motion control tasks
- Preinstalled SIMOTION runtime software
- Simple device replacement as all data can be simply transferred unchanged in the replacement device using a Compact Flash card
- Low mounting dimensions

### At home everywhere: The all-rounder to fulfill the highest demands

Is there a demand for motion control that fulfills the highest requirements for machines with a small footprint and high degree of ruggedness? Then the SIMOTION P320 is the optimum choice – for all industrial sectors.

Basis data	
Processor	<ul style="list-style-type: none"> <li>• Intel Core 2 Solo 1.2 GHz, 800 MHz FSB, SLC 3 MB</li> </ul>
Work memory (RAM)	<ul style="list-style-type: none"> <li>• 2 GB DDR3-SDRAM</li> </ul>
Features	<ul style="list-style-type: none"> <li>• PROFINET onboard (3 ports)</li> <li>• No rotating parts (no fan, no HDD)</li> <li>• 4 GB Compact Flash card</li> <li>• Windows Embedded operating system</li> <li>• Enhanced Write Filter (EWF)</li> <li>• 0 ... 55° C</li> <li>• 1 Ethernet interface (10/100/1000 Mbit)</li> <li>• 4 USB ports (all High Current)</li> </ul>
Mechanical design/mounting position	<ul style="list-style-type: none"> <li>• Mounting rail</li> <li>• Wall/panel mounting</li> <li>• Book-type mounting, front mounting position: Horizontal (preferred) and vertical</li> </ul>
MLFB No.	<ul style="list-style-type: none"> <li>• 6AU1320-7AB55-3AF0</li> </ul>



PC-based – automation concept Delta3-picker with camera system