

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



SIMOTION – the answer to ever-increasing demands placed on the product quality, productivity with continually increasing cycle rates and maximum availability with minimum life cycle costs. Up until now, the scalable motion control system with the highest degree of flexibility has been convincing 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 a significantly higher degree of competitiveness!

SIMOTION P320 – the new flexible and open system version

SIMOTION P320, our consequentially innovative continuation of the well-proven SIMOTION motion control system, offers you – for the first time ever – all of the well-proven properties of a classic PC-based motion control system – combined with all of the advantages of state-of-the-art embedded solutions. The compact and maintenance-free embedded PC can be used in a headless mode, i.e. without display, monitor or panel front. A display or monitor can be optionally connected via the integrated DVI interface.

Additional advantages: With SIMOTION IT-Diag, you can access data from the integrated web server when linked using standard IT protocols – for commissioning, diagnostics and service. The SCOUT engineering tool is not required. SIMOTION P320 also offers advantages when it comes to the versatile range of installation options to achieve the highest level of space and cost savings.

SIMOTION P320

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Top marks when it comes to ruggedness and performance

Your advantages at a glance:

Rugged and maintenance-free

The SIMOTION Embedded PC reduces downtimes and significantly increases the 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- The PC-based Compact Flash Card can be simply inserted or withdrawn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 stored 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

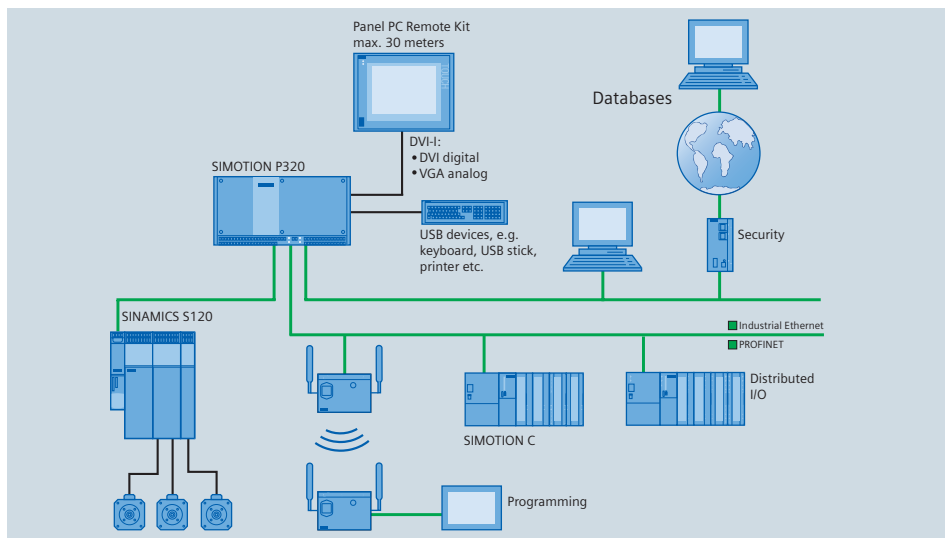
- The latest Intel processor and DDR3 storage technology for fast access times
- 4 USB high current ports
- 3 onboard PROFINET ports for cycle rates that can be configured up to 250 μ s

Compact and ready to be switched 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:

- Ready-to-switch-on combination comprising well-proven hardware and software for all motion control tasks
- Pre-installed 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

Basis data	
Processor	• Intel Core2 Solo 1.2 GHz, 800 MHz FSB, SLC 3 MB
Work memory	• 2GByte DDR3-SDRAM
Features	<ul style="list-style-type: none"> • PROFINET onboard (3 ports) • No rotating parts (no fan, no hard disk) • 4GB Compact Flash Card • Windows Embedded operating system • Enhanced Write Filter (EWF) • 0 ... 55° C • 1 Ethernet interface (10/100/1000 MBit) • 4 USB ports (all High Current)
Mechanical design/ mounting position	<ul style="list-style-type: none"> • Mounting rail • Panel mounting • Book mounting, front • Mounting position: horizontal (preferred) and vertical
MLFB No.	• 6AU1320-7AB55-3AF0



Example for simple connection to the network

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?

The SIMOTION P320 is the optimum choice – for all sectors and industrial areas.

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