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Performance Increase by Factor of 8, Footprint Reduction by 25 %

SIMATIC Technology Controllers

Powerful, compact and flexible: Our SIMATIC S7-300 central modules with integrated motion control functionality are absolutely convincing. Compared to the predecessor models, the technology controllers offer a performance increase by up to factor of eight – coupled with a footprint reduction by 25%. They provide you with numerous innovative features, including: PROFINET interface for the control side with integrated 2-port switch, integrated web server, reliable know-how protection, fail-safe functions and optional memory expansion. Also, integration into existing systems is extremely easy: The compatible successor product for existing T-CPUs is equipped with the same firmware version as standard CPUs.

Full control of demanding motion control applications

In connection with PLCopen-compliant motion control modules, the S7-300 central modules are perfectly suited for coupled motion sequences of multiple axes. Whether position-controlled single axis positioning or complex, synchronized motion sequences – our new T-CPUs master any challenge, e.g.:

- Machining / assembly lines
- Through-feed machines
- Handling systems
- Cross-arms
- Portals
- Filling and wrapping systems
- Roll feeds
- Flying shears
- Carton erectors
- Labeling machines
- Cross-cutters
- Hydraulic presses
- Palletizers, etc.



Answers for industry.



Performance increase
by up to factor of 8



Footprint reduction by 25 %



PROFINET interface
for the control side



Highlights at a glance

- + **Increased efficiency** – thanks to PROFINET interface for the control side with integrated 2-port switch
 - Easy integration into PROFINET systems
 - Simple import of projects with standard CPUs
 - Optional utilization of fail-safe I/Os via PROFINET (CPU 317TF-3 PN/DP)
 - Higher data throughput than with CP solution (e.g. 20 times faster technology firmware download)
 - Utilization of kinematic simulation (KSC) without Ethernet-CP
 - Time synchronization on Ethernet via NTP data record routing
- + **Increased performance** – thanks to improved control performance of the central module
 - Factor 8 with CPU 315T-3 PN/DP
 - Factor 2.5 with CPU 317T-3 PN/DP and CPU 317TF-3 PN/DP
- + **Increased flexibility** – thanks to more compact footprint with 40 mm smaller installation dimensions – reduced from 160 to 120 mm
- + **Increased security** – thanks to the support of know-how protection with S7 Block Privacy

Article numbers



**SIMATIC S7-300
CPU 315T-3 PN/DP**
6ES7315-7TJ10-0AB0



**SIMATIC S7-300
CPU 317T-3 PN/DP**
6ES7317-7TK10-0AB0



**SIMATIC S7-300
CPU 317TF-3 PN/DP**
6ES7317-7UL10-0AB0

For further information on SIMATIC Technology, refer to: www.siemens.com/simatic-technology

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