

300S+

Compatible, reliable, available.



The system 300S+

SPEED7 technology makes this system one of the fastest and most efficient microcontroller-based systems.



SPEED7 technology

The CPUs impress not only by their outstanding speed. By using the SPEED7 bus, the response and signal processing were again considerably optimized.

The unique memory management

Changing the MicroMemoryCard or SD card allows easy memory adjustment without having to replace the CPU. For the protection of your know-how our worldwide acknowledged Advanced KnowHow-Protect is available. The attractive selection of already integrated communication interfaces such as the built-in Ethernet/MPI and PtP interfaces as standard ensure comfort and flexibility in almost every situation.

Particularly useful

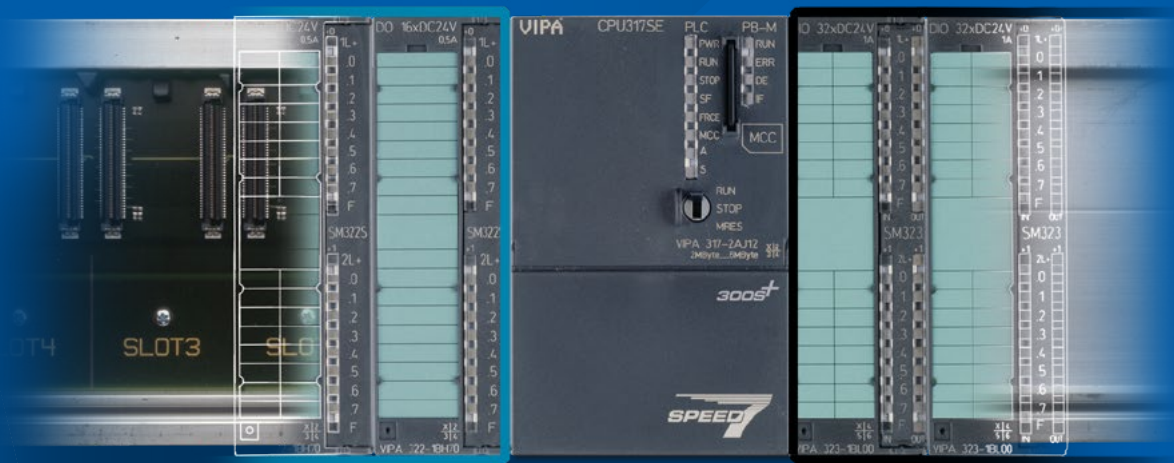
You can also operate our 300S+ CPUs without additional memory card. If required the integrated work memory - depending on the type of CPU - can be expanded individually up to 8 MB with our MCC (MemoryConfigurationCard). The 300S+ CPU simply grows with your programming. All 300S+ CPUs are equipped with Ethernet for the PG-/OP communication as standard.

Our 300S+ compact CPUs

With integrated SPEED7 technology and the I/O periphery directly on board, our 300S+ compact CPUs are particularly suitable for cost-sensitive applications. With their high-speed performance, the scalable memory and the outstanding communication our 300S+ can be used in almost all demanding applications.

Ready-to-use front plugs

Suitable for the system 300S+ we additionally offer you ready-to-use front plugs. With them you not only save time but also a lot of money. With their different lengths you can save plenty of time during the installation of your system. They are available in a length of 2.5 m up to 5 m. Each wire is individually marked, so that no confusion can occur. Why not try it and order a set of pre-assembled connectors next time.



SPEED bus

Standard-V bus

SPEED bus



- For very fast applications there is the patented and unique SPEED bus available in some selected CPUs.
- A clear competitive advantage for you and your application.

Interfaces



- Besides the MPI and PtP interface there is always an Ethernet-PG/OP interface available.
- This is standard with us and will always remain so.

Memory management



- You can expand your work memory by plugging in an MCC without having to change your CPU.
- 300S+ grows with your plant. A flexibility which is very difficult to find anywhere else.

Performance



- There are no limits in automation technology for you with the enormously high-performance SPEED7 chip.
- Performance, flexibility and communication friendliness.

User friendly



- All 300S+ controllers are programmable with Siemens SIMATIC Manager, Siemens TIA Portal or WinPLC7.
- Multi-programmable: You decide which engineering tool to use!

Compatible











- Of course a mixed use of our modules and those of other manufacturers is also possible.
- This reduces your storage costs.

300S+ at a glance








300S+ Standard CPU

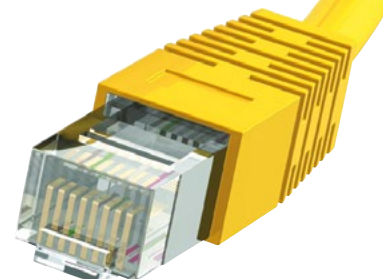
Standard CPUs									
Standard CPUs	314SE	314SB DPM	315SB	315SN	315PN ECO	315PN	317SE	317SN	317PN
Load memory [kB]	1024	1024	4096	4096	1024	4096	8192	8192	8192
Work memory [kB]	256-1024	512-1024	1024-4096	1024-4096	512-1024	1024-4096	4096-8192	4096-8192	8192
SPEED-BUS	-	-	-	-	-	-	•	•	•
RJ45 interface	1	1	1	2	2	2	1	2	2
RS485 interface	1	1	1	2	2	2	1	2	2
Serial & fieldbus	MPI, ASCII, STX/ETX, 3964(R), USS Master, ModbusRTU								
Profibus slave	•	•	•	•	•	•	•	•	•
Profibus master	•	•	•	•	•	•	•	•	•
PROFINET	-	-	-	-	•	•	-	-	•
Max. extension modules	32	32	32	32	32	32	32	32	32
Engineering tool	Siemens SIMATIC Manager, Siemens TIA Portal, WinPLC7								





300S+ Compact CPU

C Klasse	 312SC	 313SC	 313SC DPM	 314ST	 314SC DPM
Load memory [kB]	1024	1024	1024	2048	2048
Work memory [kB]	128-1024	256-1024	256-1024	512-2048	512-2048
SPEED-BUS	-	-	-	•	-
RJ45 interface	1	1	1	1	1
RS485 interface	1	1	1	1	1
Serial & fieldbus	MPI, ASCII, STX/ETX, 3964(R), USS Master, ModbusRTU				
Profibus slave	-	-	•	•	•
Profibus master	-	-	•	•	•
PROFINET	-	-	-	-	-
Onboard DI/DO/DIO	16 / 8 / -	24 / 16 / -	16 / 16 / -	8 / 8 / -	24 / 16 / 8
Onboard AI/AO/Pt100	- / - / -	4 / 2 / 1	- / - / -	4 / 2 / 1	4 / 2 / 1
Counter/PWM/Stepper	2 / 2 / 2	3 / 3 / 3	3 / 3 / 3	4 / - / 1	4 / 4 / 4
Max. extension modules	8	8	8	32	8
Engineering tool	Siemens SIMATIC Manager, Siemens TIA Portal, WinPLC7				

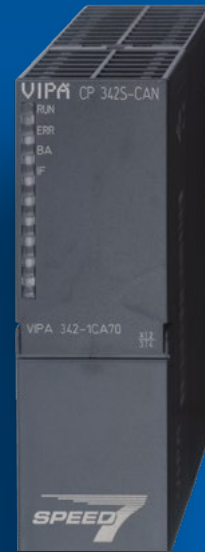


VIPA 300S+ modules



Standard bus modules

Digital Input	8x	16x	32x
DC 24 V	-	•	•
AC 120/230	-	•	-
Digital Output	8x	16x	32x
DC 24 V, 2 A	•	•	-
DC 24 V, 0.5 A	-	•	•
DC 24 V, 0.5 A (Manual operation)	-	•	-
Relay	-	•	-
DC 30 V, 0.5 A / AC 230 V, 0.5 A	-	•	-
AC 120/230 V	•	-	-
Digital In-/Output	8x	16x	32x
16x DIO (1 A), parameterizable	-	•	-
8x DI, 8x DO (1 A)	-	•	-
16x DI, 16x DO (1 A)	-	-	•
Analog Input	2x	8x	
Voltage, Current, Resistance, Resistance thermometer (13 bit)	-	•	
Voltage, Current, Resistance, Resistance thermometer (12 bit)	•	•	
Analog Output	2x	4x	
Voltage, Current	•	•	
Analog In-/Output			6x
4x AI, 2x AO, Resistance, Voltage			•
CPs			
RS232, PtP		•	
RS422/485, PtP		•	
Fieldbus module Slave			
PROFIBUS (RS485)		•	
Actor/sensor interfaces			
AS-i master		•	



SPEED bus modules

Digital Input	8x	16x
DC 24 V	-	•
Digital Output	8x	16x
DC 24 V, 0.5 A	-	•
Digital In-/Output	8x	16x
16x DIO	-	•
Analog Input	8x	16x
Current, (Osc & FIFO function)	•	-
Voltage, (Osc & FIFO function)	•	-
CPs		
2x RS422/485, PtP		•
Ethernet CP		•
Fieldbus module Master		
CANopen		•
PROFIBUS		•
INTERBUS		•
INTERBUS 2x RS422		•

SPEED7 gives the edge



Chips FROM the assembly line



Chips FOR the assembly line

And what gives you the leading edge?
Speed - SPEED7, to be clear!

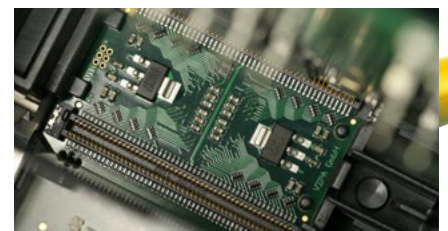
The SPEED7 technology offers developers a kit for a high-performance top automation system on an open STEP7 architecture that can be developed within a very short time.

SPEED7 is our technology platform

- SPEED7 is the basis of all existing and future systems.
- The SPEED7 technology is fully in our hand and ensures sustainability and guarantees that all our products are perfectly matched to each other also in the future.
- The SPEED7 chip gives you the highest performance, the most flexible communication and a smart memory management.

SPEED7 therefore is

- a flexible automation platform
- one of the fastest STEP7 PLC processors worldwide!
- a guarantee for maximum speed and highest clock rates
- an upgrade of existing systems to the latest level



Don't you already have this chip
in one of your products?

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