

# VIPA 300S+

High-speed powered by SPEED7



## VIPA 300S+ - The system

300S+, powered by SPEED7, makes this system to one of the fastest and most efficient µController-based systems.



#### **CPUs with SPEED7 technology**

impress our customers and not only by their outstanding speed. By using the SPEED7 bus the reaction and signal processing were again considerably optimized.

#### Our unique memory management

allows memory adjustement by simply exchanging the MicroMemory-Card without needing to change the CPU. For the protection of your knowhow our worldwide acknowledged Advanced KnowHow-Protect is available. The attractive selection of already integrated communication interfaces such as the integrated Ethernet/MPI and PtP interfaces as standard ensure comfort and flexibility in almost every situation.

#### Particularly useful

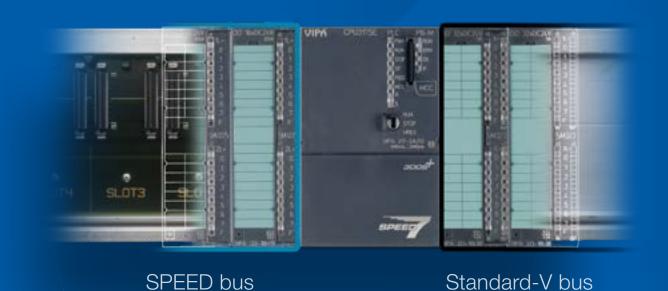
You can also operate our 300S+ CPUs without an additional memory card. If required the integrated work memory depending on the type of CPU - can be expanded individually up to 8MB with our MCC (MemoryConfigurationCard). The 300S+ CPU simply grows with your programming. All 300S+ CPUs are equipped with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

#### Our 300S+ compact CPUs

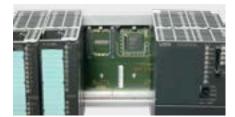
with integrated SPEED7 technology and the I/O periphery directly on board, are particularly suitable for cost-conscious use. With their high-speed performance, the scalable memory and the outstanding communication our 300S+can be used in almost all demanding applications.

### Ready-to-use front plugs

Suitable for the system VIPA 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 a lot of time during the installation of your system. They are available in a length of 2.5m up to 5m. Each wire is individually marked, so that no confusion can occur. Just test it right now and offer a set of ready-to-use front plugs with your next order.



#### **SPEED** bus



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

#### Interfaces



- Besides the MPI and PtP interface there is always of course 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 simply plugging in a 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 via SPEED7 Studio or via tools of other manufacturers.
- With us you decide which engineering tool you want to deploy!

#### Compatible



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

# VIPA 300S+ at a glance



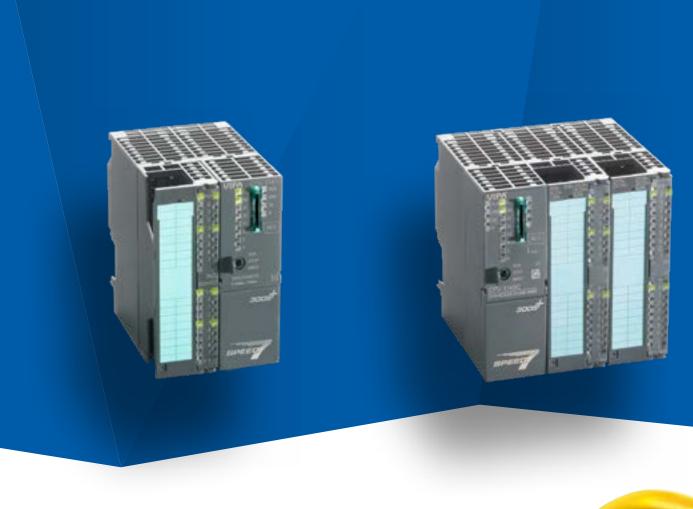
### VIPA 300S+ Standard CPU

				11	1	N. C.			
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	4096-8192
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	SPEED7 Studio, SIMATIC Manager, TIA Portal								









### VIPA 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	SPEED7 Studio, SIMATIC Manager, TIA Portal					







### VIPA 300S+ modules



#### Standard bus modules





#### 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



### And what gives you the leading edge? Speed, SPEED7, to be rather!

The SPEED7 technology offers developers a kit for a high-performance top automation system on a 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 an intelligent memory management.

#### SPEED7 is therefore...

- ... 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 have this chip already in one of your products?











VIPA ControlsAmerica 980 Birmingham Road, Ste. #721 Alpharetta, GA 3004, USA Phone: +1 (855) one-VIPA +1 (678) 880-6910 E-Mail: info@vipausa.com

www.vipausa.com

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