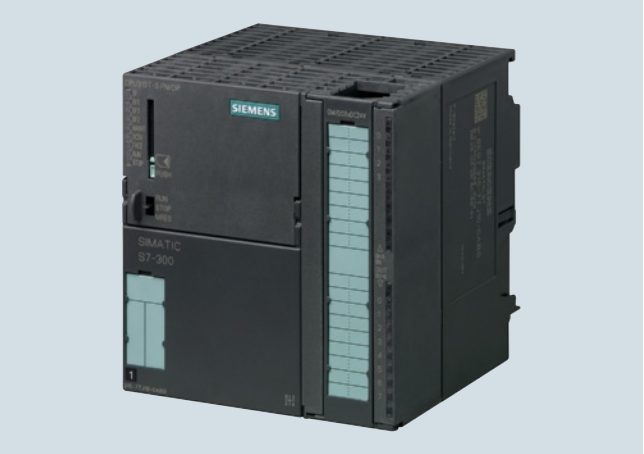
Technology CPUs

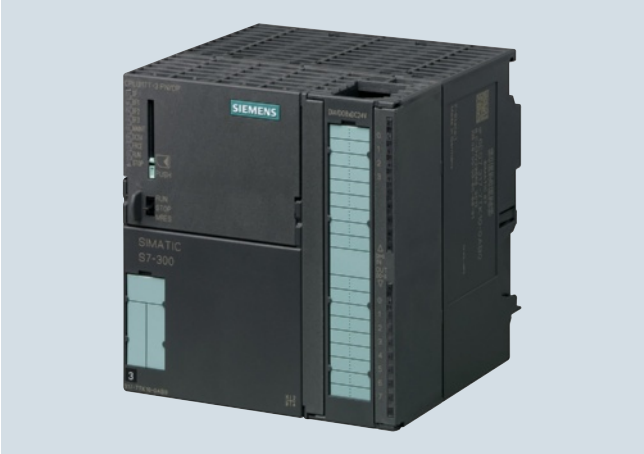
Overview CPU 315T-3 PN/DP



- SIMATIC CPU with integral Technology/Motion Control functionality
- With full standard CPU 315-2 PN/DP functionality (except for CBA)
- For cross-industry automation tasks in series machine, special machine and plant construction
- Ideal for synchronized motion, such as coupling to a virtual/real master, gear synchronization, cam disk, path interpolation, or print mark compensation
- 3D path interpolation with different kinematics
- Position and pressure-regulated hydraulic axes
- Used as central controller in production lines with central and distributed I/O
- With integrated I/O for high-speed technology functions (e.g. camming, reference point acquisition)
- PROFIBUS DP (DRIVE) interface for isochronous connection of drive components
- PROFINET interface with 2-port switch
- PROFINET I/O controller for operating distributed I/O on PROFINET
- One common S7 user program for control and motion control tasks (no additional programming language necessary for motion control)
- "S7 technology" option package required (version V4.2 SP3 and higher)

SIMATIC Micro Memory Card (8 MB) required for operation of the CPU.

Overview CPU 317T-3 PN/DP



- SIMATIC CPU with integral Technology/Motion Control functionality
- With full standard CPU 317-2 PN/DP functionality (except for CBA)
- For cross-industry automation tasks in series machine, special machine and plant construction
- Ideal for synchronized motion, such as coupling to a virtual/real master, gear synchronization, cam disk, path interpolation, or print mark compensation
- 3D path interpolation with different kinematics
- Position and pressure-regulated hydraulic axes
- Used as central controller in production lines with central and distributed I/O
- With integrated I/O for high-speed technology functions (e.g. camming, reference point acquisition)
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SIMATIC Micro Memory Card (8 MB) required for operation of the CPU.

SIPLUS S7-300 SM 322 digital output modules

Overview

- Digital outputs
- For connecting solenoid valves, contactors, small-power motors, lamps and motor starters

Note:

SIPLUS extreme products are based on Siemens Industry standard products. The contents listed here were taken from the respective standard products. SIPLUS extreme-specific information was added.

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Technical specifications

The technical data correspond to those of the based-on modules apart from the values listed in the table:

	6AG1322-1BF01-2XB0	6AG1322-8BF00-2AB0	6AG1322-1BH01-2AA0	6AG1322-1BL00-2AA0
Based on	**6ES7322-1BF01-0XB0**	**6ES7322-8BF00-0AB0**	**6ES7322-1BH01-0AA0**	**6ES7322-1BL00-0AA0**
Ambient conditions				
Operating temperature				
• Min.	-25 °C	-25 °C; = Tmin	-25 °C	-25 °C; = Tmin
• max.	70 °C; = Tmax; 60 °C @ UL/cUL use	70 °C; = Tmax; 60 °C @ UL/cUL use	70 °C; = Tmax; for use on railway vehicles according to EN50155, the rated temperature range -25 ... +55 °C (T1) or 60 °C @ UL/ULhaz/ATEX/FM use applies	70 °C; = Tmax; for use on railway vehicles according to EN50155, the rated temperature range -25 ... +55 °C (T1) or 60 °C @ UL/ULhaz/ATEX/FM use applies
Extended ambient conditions				
• Relative to ambient temperature-atmospheric pressure-installation altitude	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // Tmin ... (Tmax - 10K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20K) at 658 hPa ... 540 hPa (+3500 m ... +5000 m)			
• Relative humidity				
- with condensation, maximum	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)			
• Resistance				
- to biologically active substances/conformity with EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!			
- to chemically active substances/conformity with EN 60721-3-3	Yes; Class 3C4 (RH < 75%) incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!			
- to mechanically active substances/conformity with EN 60721-3-3	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!			

	6AG1322-1CF00-7AA0	6AG1322-1HF10-2AA0	6AG1322-5HF00-4AB0	6AG1322-1FF01-7AA0
Based on	**6ES7322-1CF00-0AA0**	**6ES7322-1HF10-0AA0**	**6ES7322-5HF00-0AB0**	**6ES7322-1FF01-0AA0**
Ambient conditions				
Operating temperature				
• Min.	-25 °C	-25 °C	0 °C; = Tmin	-40 °C
• max.	70 °C; = Tmax; for use on railway vehicles according to EN50155, the rated temperature range -25 ... +55 °C (T1) or 60 °C @ UL/ULhaz/ATEX/FM use applies	60 °C	60 °C; = Tmax	70 °C; = Tmax; for use on railway vehicles according to EN50155, the rated temperature range -25 ... +55 °C (T1) or 60 °C @ UL/UL hazardous use applies
Extended ambient conditions				
• Relative to ambient temperature-atmospheric pressure-installation altitude	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m)			
• Relative humidity				
- with condensation, maximum	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)			
• Resistance				
- to biologically active substances/conformity with EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!			

Technical specifications (continued)

	6AG1322-1CF00-7AA0	6AG1322-1HF10-2AA0	6AG1322-5HF00-4AB0	6AG1322-1FF01-7AA0
Based on	**6ES7322-1CF00-0AA0**	**6ES7322-1HF10-0AA0**	**6ES7322-5HF00-0AB0**	**6ES7322-1FF01-0AA0**
Extended ambient conditions				
• Resistance				
- to chemically active substances/conformity with EN 60721-3-3	Yes; Class 3C4 (RH < 75%) incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!			
- to mechanically active substances/conformity with EN 60721-3-3	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!			

	6AG1322-5FF00-4AB0	6AG1322-1FH00-7AA0	6AG1322-1HH01-2AA0
Based on	**6ES7322-5FF00-0AB0**	**6ES7322-1FH00-0AA0**	**6ES7322-1HH01-0AA0**
Ambient conditions			
Operating temperature			
• Min.	0 °C; = Tmin	-40 °C; = Tmin	-40 °C
• max.	60 °C; = Tmax	70 °C; = Tmax; 60 °C @ UL/cUL, ATEX and FM use	70 °C; = Tmax; 60 °C @ UL/cUL, ATEX and FM use
Extended ambient conditions			
• Relative to ambient temperature-atmospheric pressure-installation altitude	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m)	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m)	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m)
• Relative humidity			
- with condensation, maximum	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)		100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
• Resistance			
- to biologically active substances/conformity with EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!		
- to chemically active substances/conformity with EN 60721-3-3	Yes; Class 3C4 (RH < 75%) incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!		
- to mechanically active substances/conformity with EN 60721-3-3	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!		

Ordering data

	Article No.
SIPLUS S7-300 SM 322 digital output modules	
Extended temperature range and exposure to media	
8 outputs, 24 V DC, 2 A	**6AG1322-1BF01-2XB0**
16 outputs, 24 V DC, 0.5 A	**6AG1322-1BH01-2AA0**
32 outputs, 24 V DC, 0.5 A	**6AG1322-1BL00-2AA0**
8 outputs, 48 to 125 V DC, 1.5 A	**6AG1322-1CF00-7AA0**
8 outputs, 120/230 V AC, 1 A	**6AG1322-1FF01-7AA0**
16 outputs, 120/230 V AC, 1 A	**6AG1322-1FH00-7AA0**
8 outputs, relay contacts, 5 A	**6AG1322-1HF10-2AA0**
16 outputs, relay contacts, 8 A	**6AG1322-1HH01-2AA0**
8 outputs, 24 V DC, 0.5 A, diagnostics-capable	**6AG1322-8BF00-2AB0**
Exposure to media	
8 outputs, 120/230 V AC, 2 A	**6AG1322-5FF00-4AB0**
8 outputs, relay contacts, 5 A, with RC filter, overvoltage protection	**6AG1322-5HF00-4AB0**
Conforms to EN 50155	
16 outputs, 24 V DC, 0.5 A, high speed	**6AG1322-1BH01-2AA0**
32 outputs, 24 V DC, 0.5 A	**6AG1322-1BL00-2AA0**
8 outputs, relay contacts, 5 A	**6AG1322-1HF10-2AA0**
16 outputs, relay contacts, 8 A	**6AG1322-1HH01-2AA0**
8 outputs, 24 V DC, 0.5 A, diagnostics-capable	**6AG1322-8BF00-2AB0**
Accessories	See SIMATIC S7-300 digital output modules, catalog ST 70 · 2013, page 5/60