

# SIMATIC S7-1500 Advanced Controllers

Central processing units  
Redundant CPUs

## Technical specifications

### Technical specifications

Article number	<b>6ES7513-1RM03-0AB0</b>	<b>6ES7515-2RN03-0AB0</b>	<b>6ES7517-3HP00-0AB0</b>	<b>6ES7517-4HQ10-0AB0</b>	<b>6ES7518-4JP00-0AB0</b>	<b>6ES7518-4JT10-0AB0</b>
	CPU 1513R-1 PN, 600KB program/ 2.5MB data	CPU 1515R-2 PN, 1MB program/ 4.5MB data	CPU 1517H-3 PN, 2MB program/ 8MB data	CPU 1517H-4 PN, 4MB prog., 50MB data	CPU 1518HF-4 PN, 9MB program/ 60MB data	CPU 1518HF-4 PN, 18MB prog., 150MB data
<b>General information</b>						
Product type designation	CPU 1513R-1 PN	CPU 1515R-2 PN	CPU 1517H-3 PN	CPU 1517H-4 PN	CPU 1518HF-4PN	CPU 1518HF-4 PN
<b>Engineering with</b>						
<ul style="list-style-type: none"> <li>STEP 7 TIA Portal configurable/ integrated from version</li> </ul>	V20 (FW V4.0) / V18 (FW V3.0) or higher; configurable with older TIA Portal versions as 6ES7 513-1RL00-0AB0	V20 (FW V4.0) / V18 (FW V3.0) or higher; configurable with older TIA Portal versions as 6ES7 515-2RM00-0AB0	V19 (FW V3.1) / V15.1 (FW V2.6) or higher	V20 (FW V4.0)	V19 (FW V3.1) / V17 (FW V2.9) or higher	V20 (FW V4.0)
<b>Redundancy</b>						
<ul style="list-style-type: none"> <li>stand-alone operation</li> </ul>	Yes	Yes		No		No
<b>Display</b>						
Screen diagonal [cm]	3.45 cm	6.1 cm	6.1 cm	6.1 cm	6.1 cm	6.1 cm
<b>Supply voltage</b>						
Rated value (DC)	24 V	24 V	24 V	24 V	24 V	24 V
<b>Memory</b>						
<b>Work memory</b>						
<ul style="list-style-type: none"> <li>integrated (for program)</li> <li>integrated (for data)</li> </ul>	600 kbyte 2.5 Mbyte	1 Mbyte 4.5 Mbyte	2 Mbyte 8 Mbyte	4 Mbyte 50 Mbyte	9 Mbyte 60 Mbyte	18 Mbyte 150 Mbyte
<b>Load memory</b>						
<ul style="list-style-type: none"> <li>Plug-in (SIMATIC Memory Card), max.</li> </ul>	32 Gbyte	32 Gbyte	32 Gbyte	32 Gbyte	32 Gbyte	32 Gbyte
<b>CPU processing times</b>						
for bit operations, typ.	20 ns	20 ns	4 ns	1 ns	4 ns	1 ns
for word operations, typ.	24 ns	24 ns	6 ns	2 ns	6 ns	2 ns
for fixed point arithmetic, typ.	32 ns	32 ns	6 ns	2 ns	6 ns	2 ns
for floating point arithmetic, typ.	128 ns	128 ns	24 ns	8 ns	24 ns	8 ns
<b>Counters, timers and their retentivity</b>						
<b>S7 counter</b>						
<ul style="list-style-type: none"> <li>Number</li> </ul>	2 048	2 048	2 048	2 048	2 048	2 048
<b>IEC counter</b>						
<ul style="list-style-type: none"> <li>Number</li> </ul>	Any (only limited by the main memory)	Any (only limited by the main memory)	Any (only limited by the main memory)	Any (only limited by the main memory)	Any (only limited by the main memory)	Any (only limited by the main memory)
<b>S7 times</b>						
<ul style="list-style-type: none"> <li>Number</li> </ul>	2 048	2 048	2 048	2 048	2 048	2 048
<b>IEC timer</b>						
<ul style="list-style-type: none"> <li>Number</li> </ul>	Any (only limited by the main memory)	Any (only limited by the main memory)	Any (only limited by the main memory)	Any (only limited by the main memory)	Any (only limited by the main memory)	Any (only limited by the main memory)
<b>Data areas and their retentivity</b>						
<b>Flag</b>						
<ul style="list-style-type: none"> <li>Size, max.</li> </ul>	16 kbyte	16 kbyte	16 kbyte	16 kbyte	16 kbyte	16 kbyte
<b>Address area</b>						
<b>I/O address area</b>						
<ul style="list-style-type: none"> <li>Inputs</li> <li>Outputs</li> </ul>	32 kbyte; All inputs are in the process image 32 kbyte; All outputs are in the process image	32 kbyte; All inputs are in the process image 32 kbyte; All outputs are in the process image	32 kbyte; All inputs are in the process image 32 kbyte; All outputs are in the process image	32 kbyte; All inputs are in the process image 32 kbyte; All outputs are in the process image	32 kbyte; All inputs are in the process image 32 kbyte; All outputs are in the process image	32 kbyte; All inputs are in the process image 32 kbyte; All outputs are in the process image
<b>Time of day</b>						
<b>Clock</b>						
<ul style="list-style-type: none"> <li>Type</li> </ul>	Hardware clock	Hardware clock	Hardware clock	Hardware clock	Hardware clock	Hardware clock
<b>1. Interface</b>						
<b>Interface types</b>						
<ul style="list-style-type: none"> <li>RJ 45 (Ethernet)</li> <li>Number of ports</li> <li>integrated switch</li> </ul>	Yes; X1 2 Yes	Yes; X1 2 Yes	Yes; X1 2 Yes	Yes; X1 2 Yes	Yes; X1 2 Yes	Yes; X1 2 Yes

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<b>Protocols</b>						
• IP protocol	Yes; IPv4	Yes; IPv4	Yes; IPv4	Yes; IPv4	Yes; IPv4	Yes; IPv4
• PROFINET IO Controller	Yes	Yes	Yes	Yes	Yes	Yes
• PROFINET IO Device	No	No	No	No	No	No
• SIMATIC communication	Yes; Only Server	Yes; Only Server	Yes; Only Server	Yes; Only Server	Yes; Only Server	Yes; Only Server
• Open IE communication	Yes; Optionally also encrypted	Yes; Optionally also encrypted	Yes; Optionally also encrypted	Yes; Optionally also encrypted	Yes; Optionally also encrypted	Yes; Optionally also encrypted
• Web server	Yes	Yes	Yes	Yes	Yes	Yes
• Media redundancy	Yes	Yes	Yes	Yes	Yes	Yes
<b>PROFINET IO Controller</b>						
<b>Services</b>						
- Isochronous mode	No	No	No	No	No	No
- IRT	No	No	No	No	No	No
- PROFinergy	Yes; per user program	Yes; per user program	Yes; per user program	Yes; per user program	Yes; per user program	Yes; per user program
- Number of connectable IO Devices, max.	64	64	256	256	256	256
- Updating times	The minimum value of the update time also depends on communication share set for PROFINET IO, on the number of IO devices, and on the quantity of configured user data	The minimum value of the update time also depends on communication share set for PROFINET IO, on the number of IO devices, and on the quantity of configured user data	The minimum value of the update time also depends on communication share set for PROFINET IO, on the number of IO devices, and on the quantity of configured user data	The minimum value of the update time also depends on communication share set for PROFINET IO, on the number of IO devices, and on the quantity of configured user data	The minimum value of the update time also depends on communication share set for PROFINET IO, on the number of IO devices, and on the quantity of configured user data	The minimum value of the update time also depends on communication share set for PROFINET IO, on the number of IO devices, and on the quantity of configured user data
- PROFINET Security Class	1	1	1	1	1	1
<b>2. Interface</b>						
<b>Interface types</b>						
• RJ 45 (Ethernet)		Yes; X2	Yes; X2	Yes; X2	Yes; X2	Yes; X2
• Number of ports		1	1	2	1	2
• integrated switch		No	No	Yes	No	Yes
<b>Protocols</b>						
• IP protocol		Yes; IPv4	Yes; IPv4	Yes; IPv4	Yes; IPv4	Yes; IPv4
• PROFINET IO Controller		No	No	No	No	No
• PROFINET IO Device		No	No	No	No	No
• SIMATIC communication		Yes; Only Server	Yes; Only Server	Yes; Only Server	Yes; Only Server	Yes; Only Server
• Open IE communication		Yes; Optionally also encrypted	Yes; Optionally also encrypted	Yes; Optionally also encrypted	Yes; Optionally also encrypted	Yes; Optionally also encrypted
• Web server		Yes	Yes	Yes	Yes	Yes
• Media redundancy		No	No	No	No	No
<b>3. Interface</b>						
Interface type			Pluggable synchronization submodule (FO)			
Plug-in interface modules			Synchronization module 6ES7960-1CB00-0AA5, 6ES7960-1FB00-0AA5 or 6ES7960-1FE00-0AA5			
<b>Interface types</b>						
• RJ 45 (Ethernet)				Yes; X3	Yes; X3	Yes; X3
• Number of ports				1	1	1
• integrated switch				No	No	No
<b>Protocols</b>						
• IP protocol				Yes; IPv4	Yes; IPv4	Yes; IPv4
• SIMATIC communication				Yes; Only Server	Yes; Only Server	Yes; Only Server
• Open IE communication				Yes; Optionally also encrypted	Yes; Optionally also encrypted	Yes; Optionally also encrypted
• Web server				Yes	Yes	Yes

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<b>4. Interface</b>						
Interface type			Pluggable synchronization submodule (FO)	Pluggable synchronization submodule (FO)	Pluggable synchronization submodule (FO)	Pluggable synchronization submodule (FO)
Plug-in interface modules			Synchronization module 6ES7960-1CB00-0AA5, 6ES7960-1FB00-0AA5 or 6ES7960-1FE00-0AA5	Synchronization module 6ES7960-1CB00-0AA5, 6ES7960-1FB00-0AA5 or 6ES7960-1FE00-0AA5	Synchronization module 6ES7960-1CB00-0AA5, 6ES7960-1FB00-0AA5 or 6ES7960-1FE00-0AA5	Synchronization module 6ES7960-1CB00-0AA5, 6ES7960-1FB00-0AA5 or 6ES7960-1FE00-0AA5
<b>5. Interface</b>						
Interface type				Pluggable synchronization submodule (FO)	Pluggable synchronization submodule (FO)	Pluggable synchronization submodule (FO)
Plug-in interface modules				Synchronization module 6ES7960-1CB00-0AA5, 6ES7960-1FB00-0AA5 or 6ES7960-1FE00-0AA5	Synchronization module 6ES7960-1CB00-0AA5, 6ES7960-1FB00-0AA5 or 6ES7960-1FE00-0AA5	Synchronization module 6ES7960-1CB00-0AA5, 6ES7960-1FB00-0AA5 or 6ES7960-1FE00-0AA5
<b>Protocols</b>						
<b>Number of connections</b>						
• Number of connections, max.	128; via integrated interfaces of the CPU and connected CPs	256; via integrated interfaces of the CPU and connected CPs	320; via integrated interfaces of the CPU and connected CPs	320; via integrated interfaces of the CPU and connected CPs	384; via integrated interfaces of the CPU and connected CPs	384; via integrated interfaces of the CPU and connected CPs
<b>Redundancy mode</b>						
<b>Media redundancy</b>						
- Media redundancy	Yes; only via 1st interface (X1)	Yes; only via 1st interface (X1)		Yes; only via 1st interface (X1)	only via 1st interface (X1)	Yes; only via 1st interface (X1)
- MRP	Yes; MRP Automanager according to IEC 62439-2 Edition 2.0	Yes; MRP Automanager according to IEC 62439-2 Edition 2.0	Yes; MRP Automanager according to IEC 62439-2 Edition 2.0	Yes; MRP Automanager according to IEC 62439-2 Edition 2.0	Yes; MRP Automanager according to IEC 62439-2 Edition 2.0	Yes; MRP Automanager according to IEC 62439-2 Edition 2.0
- MRP interconnection, supported	Yes; as MRP ring node according to IEC 62439-2 Edition 3.0	Yes; as MRP ring node according to IEC 62439-2 Edition 3.0	Yes; as MRP ring node according to IEC 62439-2 Edition 3.0	Yes; as MRP ring node according to IEC 62439-2 Edition 3.0	Yes; as MRP ring node according to IEC 62439-2 Edition 3.0	Yes; as MRP ring node according to IEC 62439-2 Edition 3.0
- MRPD	No	No	No	No	No	No
- Switchover time on line break, typ.	200 ms; PROFINET MRP	200 ms; PROFINET MRP	200 ms; PROFINET MRP	200 ms; PROFINET MRP	200 ms; PROFINET MRP	200 ms; PROFINET MRP
- Number of stations in the ring, max.	50; Only 16 are recommended, however	50; Only 16 are recommended, however	50	50	50	50
<b>SIMATIC communication</b>						
• S7 routing	Yes	Yes	Yes	Yes	Yes	Yes
<b>OPC UA</b>						
• OPC UA Client	No	No	No	No	No	No
• OPC UA Server	Yes; data access (read, write, subscribe), method call, custom address space, role-based access control	Yes; data access (read, write, subscribe), method call, custom address space, role-based access control	Yes; Data access (read, write, subscribe), method call, custom address space	Yes; data access (read, write, subscribe), method call, custom address space, role-based access control	Yes; Data access (read, write, subscribe), method call, custom address space	Yes; data access (read, write, subscribe), method call, custom address space, role-based access control
• Alarms and Conditions	No	No	No	No	No	No

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<b>Supported technology objects</b>						
Motion Control	No	No	No	No	No	No
Controller						
• PID_Compact	Yes; Universal PID controller with integrated optimization	Yes; Universal PID controller with integrated optimization	Yes; Universal PID controller with integrated optimization	Yes; Universal PID controller with integrated optimization	Yes; Universal PID controller with integrated optimization	Yes; Universal PID controller with integrated optimization
• PID_3Step	Yes; PID controller with integrated optimization for valves	Yes; PID controller with integrated optimization for valves	Yes; PID controller with integrated optimization for valves	Yes; PID controller with integrated optimization for valves	Yes; PID controller with integrated optimization for valves	Yes; PID controller with integrated optimization for valves
• PID-Temp	Yes; PID controller with integrated optimization for temperature	Yes; PID controller with integrated optimization for temperature	Yes; PID controller with integrated optimization for temperature	Yes; PID controller with integrated optimization for temperature	Yes; PID controller with integrated optimization for temperature	Yes; PID controller with integrated optimization for temperature
Counting and measuring	Yes	Yes	Yes	Yes	Yes	Yes
<b>Standards, approvals, certificates</b>						
<b>Highest safety class achievable in safety mode</b>						
<b>Probability of failure (for service life of 20 years and repair time of 100 hours)</b>						
- Low demand mode: PFDavg in accordance with SIL3					< 2.00E-05	< 2.00E-05
- High demand/continuous mode: PFH in accordance with SIL3					< 1.00E-09	< 1.00E-09
<b>Product functions / security</b>						
PROFINET Security Class	1	1		1		1
signed firmware update	Yes	Yes		Yes		Yes
Secure Boot	Yes	Yes		Yes		Yes
safely removing data	Yes	Yes		Yes		Yes
<b>Ambient conditions</b>						
<b>Ambient temperature during operation</b>						
• horizontal installation, min.	-30 °C; No condensation	-30 °C; No condensation	0 °C	0 °C	0 °C	0 °C
• horizontal installation, max.	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off
• vertical installation, min.	-30 °C; No condensation	-30 °C; No condensation	0 °C	0 °C	0 °C	0 °C
• vertical installation, max.	40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off	40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off	40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off	40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off	40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off	40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off
<b>Altitude during operation relating to sea level</b>						
• Installation altitude above sea level, max.	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual

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<b>Configuration</b>						
<b>Configuration / programming</b>						
<b>Programming language</b>						
- LAD	Yes	Yes	Yes	Yes	Yes; incl. failsafe	Yes; incl. failsafe
- FBD	Yes	Yes	Yes	Yes	Yes; incl. failsafe	Yes; incl. failsafe
- STL	Yes	Yes	Yes	Yes	Yes	Yes
- SCL	Yes	Yes	Yes	Yes	Yes	Yes
- CFC	Yes	Yes	Yes	Yes	Yes; either CFC or failsafe functionality	Yes; either CFC or failsafe functionality
- GRAPH	Yes	Yes	Yes	Yes	Yes	Yes
<b>Know-how protection</b>						
• User program protection/ password protection	Yes	Yes	Yes	Yes	Yes	Yes
• Copy protection	No	No	No	No	No	No
• Block protection	Yes	Yes	Yes	Yes	Yes	Yes
<b>Access protection</b>						
• protection of confidential configuration data	Yes	Yes	Yes	Yes	Yes	Yes
• Password for display	Yes	Yes	Yes	Yes	Yes	Yes
• Protection level: Write protection	Yes	Yes	Yes	Yes	Yes	Yes
• Protection level: Read/write protection	Yes	Yes	Yes	Yes	Yes	Yes
• Protection level: Write protection for Failsafe	No	No	No	No	Yes	Yes
• Protection level: Complete protection	Yes	Yes	Yes	Yes	Yes	Yes
• User administration	Yes; device-wide and centralized	Yes; device-wide and centralized	Yes	Yes; device-wide and centralized	Yes	Yes; device-wide and centralized
• Number of users	100	100		100		100
<b>Dimensions</b>						
Width	35 mm	70 mm	210 mm	210 mm	210 mm	210 mm
Height	147 mm	147 mm	147 mm	147 mm	147 mm	147 mm
Depth	129 mm	129 mm	129 mm	129 mm	129 mm	129 mm
<b>Weights</b>						
Weight, approx.	336 g	456 g	2 094 g; Interface modules: 2x 18 g	1 806 g; Interface modules: 2x 18 g	2 116 g	1 806 g

# SIMATIC S7-400 Advanced Controllers

## Overview

### SIMATIC S7-400

#### Overview

#### **SIMATIC S7-400:** **The powerful controller for system solutions in the manufacturing and process industries**

Within the controller family, the SIMATIC S7-400 is designed for system solutions in the manufacturing and process automation industry.

- The modularly designed S7-400H can be flexibly adapted to your requirements. The redundant configuration further increases system availability.
- An additional protective coating (conformal coating) on the circuit board optimally protects the modules against external influences and makes them durable.
- The S7-400H stands out thanks to its long-term availability.
- Safety engineering, SIMATIC F-systems and standard automation can be integrated into a single automation system.
- The configuration of the distributed I/O of the S7-400 can be modified during operation. In addition signal modules can be removed and inserted while live (hot swapping). This makes it very easy to expand the system or replace modules in the event of a fault.
- Storage of the entire project data, including symbols and comments, on the CPU simplifies service and maintenance calls.



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SIMATIC S7-400, CPU	412-5H <sup>4)</sup>	414-5H <sup>4)</sup>	416-5H <sup>4)</sup>	417-5H <sup>4)</sup>
<b>Work memory</b>	1 MB	4 MB	16 MB	32 MB
<b>Processing times (ns)</b>				
Bit/word/ fixed point/floating point	31.25/31.25/ 31.25/62.5	18.75/18.75/ 18.75/37.5	12.5/12.5/ 12.5/25	7.5/7.5/ 7.5/15
<b>Timers/counters</b>	2048/2048	2048/2048	2048/2048	2048/2048
<b>Address ranges</b>				
Digital inputs/outputs	65536 each	65536 each	131072 each	131072 each
Analog inputs/outputs	4096 each	4096 each	8192 each	8192 each
<b>DP interfaces</b>				
Number of MPI/DP interfaces	1	1	1	1
Number of DP interfaces	1	1	1	1
Number of DP slaves per MPI/DP	32	32	32	32
Number of DP slaves per DP	64	96	125	125
Plug-in interface modules	—	—	—	—
Data set gateway	●	●	●	●
<b>PN interfaces</b>				
Number of PN interfaces	1 (2 ports)	1 (2 ports)	1 (2 ports)	1 (2 ports)
PROFINET IO	●	●	●	●
PROFINET with IRT	—	—	—	—
PROFINET CBA	—	—	—	—
TCP/IP	●	●	●	●
UDP	●	●	●	●
Web server	—	—	—	—
ISO-on-TCP (RFC 1006)	●	●	●	●
<b>Mounting dimensions</b>				
W x H x D (mm)	50 x 290 x 219	50 x 290 x 219	50 x 290 x 219	50 x 290 x 219

— = cannot be used/not available  
● = can be used/available

<sup>4)</sup> also as SIPLUS extreme component for corrosive atmosphere/condensation