SIEMENS

Data sheet



SIMATIC S7-1500, Software Controller CPU 1508S, Single License f. 1 install., R-SW, SW and docum. on DVD, license key on USB flash drive, R-SW Class A, 6 languages (de,en,it,fr,es,zh), executable in Windows 7/10 reference HW: IPC4x7E, IPC6x7E, IPC8x7E, IPC6x7D, IPC8x7D

General information	
Product type designation	CPU 1508S
Software version	V21.9
Product function	
● I&M data	Yes; I&M0 to I&M3
Engineering with	
STEP 7 TIA Portal configurable/integrated from version	V17
Configuration control	
via dataset	Yes
Memory	
SIMATIC memory card required	No; Use of the PC mass storage
Work memory	
integrated (for program)	10 Mbyte
integrated (for data)	100 Mbyte
• integrated (for CPU function library of CPU Runtime)	50 Mbyte
Load memory	
• integrated (on PC mass storage)	1 024 Mbyte
Backup	
• with UPS	Yes; all memory areas declared retentive
 with non-volatile memory 	Yes; Depending on PC hardware
CPU processing times	
for bit operations, typ.	1 ns; On IPC427E, Intel Xeon processor
for word operations, typ.	2 ns; On IPC427E, Intel Xeon processor
for fixed point arithmetic, typ.	2 ns; On IPC427E, Intel Xeon processor
for floating point arithmetic, typ.	2 ns; On IPC427E, Intel Xeon processor
CPU-blocks	
Number of elements (total)	6 000; In addition to blocks such as DBs, FBs and FCs, UDTs, global constants, etc. are also regarded as elements
DB	
Number, max.	5 999; Number range: 1 to 65535
Size, max.	16 Mbyte
FB	
Number, max.	5 998; Number range: 1 to 65535
• Size, max.	1 024 kbyte
FC	
Number, max.	5 999; Number range: 1 to 65535
• Size, max.	1 024 kbyte
OB	
• Size, max.	1 024 kbyte
 Number of free cycle OBs 	100

 Number of time alarm OBs 	20
 Number of delay alarm OBs 	20
 Number of cyclic interrupt OBs 	20
 Number of process alarm OBs 	50
 Number of DPV1 alarm OBs 	3
 Number of isochronous mode OBs 	1
Number of technology synchronous alarm OBs	2
Number of startup OBs	100
Number of asynchronous error OBs	4
•	2
Number of synchronous error OBs	
Number of diagnostic alarm OBs	1
Nesting depth	
per priority class	24
Counters, timers and their retentivity	
S7 counter	
Number	2 048
Retentivity	
— adjustable	Yes
IEC counter	
• Number	Any (only limited by the main memory)
Retentivity	, () minot by the main monthly
— adjustable	Yes
•	res
S7 times	0.040
• Number	2 048
Retentivity	
— adjustable	Yes
IEC timer	
Number	Any (only limited by the main memory)
Retentivity	
— adjustable	Yes
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	135 kbyte; on SIMATIC IPC427D, IPC477D, IPC427E, IPC477E, IPC627E, IPC677E; 35 KB on SIMATIC IPC627D, IPC677D and IPC827D
Extended retentive data area (incl. timers, counters, flags), max.	100 Mbyte; When using PC mass storage for retentive data
Flag	
Flag	16 khyte
• Size, max.	16 kbyte
Size, max. Number of clock memories	16 kbyte 8; in 1 memory byte
Size, max.Number of clock memoriesData blocks	8; in 1 memory byte
 Size, max. Number of clock memories Data blocks Retentivity adjustable 	8; in 1 memory byte Yes
 Size, max. Number of clock memories Data blocks Retentivity adjustable Retentivity preset 	8; in 1 memory byte
 Size, max. Number of clock memories Data blocks Retentivity adjustable Retentivity preset Local data 	8; in 1 memory byte Yes No
 Size, max. Number of clock memories Data blocks Retentivity adjustable Retentivity preset 	8; in 1 memory byte Yes
 Size, max. Number of clock memories Data blocks Retentivity adjustable Retentivity preset Local data	8; in 1 memory byte Yes No
Size, max. Number of clock memories Data blocks Retentivity adjustable Retentivity preset Local data per priority class, max.	8; in 1 memory byte Yes No
Size, max. Number of clock memories Data blocks Retentivity adjustable Retentivity preset Local data per priority class, max. Address area	8; in 1 memory byte Yes No 64 kbyte; max. 16 KB per block
Size, max. Number of clock memories Data blocks Retentivity adjustable Retentivity preset Local data per priority class, max. Address area Number of IO modules	8; in 1 memory byte Yes No 64 kbyte; max. 16 KB per block
Size, max. Number of clock memories Data blocks Retentivity adjustable Retentivity preset Local data per priority class, max. Address area Number of IO modules I/O address area Inputs	8; in 1 memory byte Yes No 64 kbyte; max. 16 KB per block 8 192 32 kbyte
Size, max. Number of clock memories Data blocks Retentivity adjustable Retentivity preset Local data per priority class, max. Address area Number of IO modules I/O address area Inputs Outputs	8; in 1 memory byte Yes No 64 kbyte; max. 16 KB per block
 Size, max. Number of clock memories Data blocks Retentivity adjustable Retentivity preset Local data per priority class, max. Address area Number of IO modules I/O address area Inputs Outputs Subprocess images 	8; in 1 memory byte Yes No 64 kbyte; max. 16 KB per block 8 192 32 kbyte 32 kbyte
Size, max. Number of clock memories Data blocks Retentivity adjustable Retentivity preset Local data per priority class, max. Address area Number of IO modules I/O address area Inputs Outputs Subprocess images Number of subprocess images, max.	8; in 1 memory byte Yes No 64 kbyte; max. 16 KB per block 8 192 32 kbyte
Size, max. Number of clock memories Data blocks Retentivity adjustable Retentivity preset Local data per priority class, max. Address area Number of IO modules I/O address area Inputs Outputs Subprocess images Number of subprocess images, max. Hardware configuration	8; in 1 memory byte Yes No 64 kbyte; max. 16 KB per block 8 192 32 kbyte 32 kbyte 32
Size, max. Number of clock memories Data blocks Retentivity adjustable Retentivity preset Local data per priority class, max. Address area Number of IO modules I/O address area Inputs Outputs Subprocess images Number of subprocess images, max. Hardware configuration Number of distributed IO systems	8; in 1 memory byte Yes No 64 kbyte; max. 16 KB per block 8 192 32 kbyte 32 kbyte
 Size, max. Number of clock memories Data blocks Retentivity adjustable Retentivity preset Local data per priority class, max. Address area Number of IO modules I/O address area Inputs Outputs Subprocess images Number of subprocess images, max. Hardware configuration Number of DP masters 	8; in 1 memory byte Yes No 64 kbyte; max. 16 KB per block 8 192 32 kbyte 32 kbyte 32
Size, max. Number of clock memories Data blocks Retentivity adjustable Retentivity preset Local data per priority class, max. Address area Number of IO modules I/O address area Inputs Outputs Subprocess images Number of subprocess images, max. Hardware configuration Number of distributed IO systems	8; in 1 memory byte Yes No 64 kbyte; max. 16 KB per block 8 192 32 kbyte 32 kbyte 32
Size, max. Number of clock memories Data blocks Retentivity adjustable Retentivity preset Local data per priority class, max. Address area Number of IO modules I/O address area Inputs Outputs Subprocess images Number of subprocess images, max. Hardware configuration Number of DP masters	8; in 1 memory byte Yes No 64 kbyte; max. 16 KB per block 8 192 32 kbyte 32 kbyte 32
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 Size, max. Number of clock memories Data blocks Retentivity adjustable Retentivity preset Local data per priority class, max. Address area Number of IO modules I/O address area Inputs Outputs Subprocess images Number of subprocess images, max. Hardware configuration Number of DP masters via PC interfaces Number of IO Controllers 	8; in 1 memory byte Yes No 64 kbyte; max. 16 KB per block 8 192 32 kbyte 32 20 1
Size, max. Number of clock memories Data blocks Retentivity adjustable Retentivity preset Local data per priority class, max. Address area Number of IO modules I/O address area Inputs Outputs Subprocess images Number of subprocess images, max. Hardware configuration Number of distributed IO systems Number of DP masters via PC interfaces Number of IO Controllers via PC interfaces	8; in 1 memory byte Yes No 64 kbyte; max. 16 KB per block 8 192 32 kbyte 32 20 1
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 Size, max. Number of clock memories Data blocks Retentivity adjustable Retentivity preset Local data per priority class, max. Address area Number of IO modules I/O address area Inputs Outputs Subprocess images Number of subprocess images, max. Hardware configuration Number of distributed IO systems Number of DP masters via PC interfaces Number of day Clock Type 	8; in 1 memory byte Yes No 64 kbyte; max. 16 KB per block 8 192 32 kbyte 32 kbyte 32 20 1 2; any combination of RT or IRT interfaces Software clock, synchronizable, no battery backup
 Size, max. Number of clock memories Data blocks Retentivity adjustable Retentivity preset Local data per priority class, max. Address area Number of IO modules I/O address area Inputs Outputs Subprocess images Number of subprocess images, max. Hardware configuration Number of DP masters via PC interfaces Number of IO Controllers via PC interfaces Time of day Clock Type Deviation per day, max. 	8; in 1 memory byte Yes No 64 kbyte; max. 16 KB per block 8 192 32 kbyte 32 20 1 2; any combination of RT or IRT interfaces
 Size, max. Number of clock memories Data blocks Retentivity adjustable Retentivity preset Local data per priority class, max. Address area Number of IO modules I/O address area Inputs Outputs Subprocess images Number of subprocess images, max. Hardware configuration Number of distributed IO systems Number of IO Controllers via PC interfaces Number of day Clock Type 	8; in 1 memory byte Yes No 64 kbyte; max. 16 KB per block 8 192 32 kbyte 32 kbyte 32 20 1 2; any combination of RT or IRT interfaces Software clock, synchronizable, no battery backup



Clock synchronization	
• supported	Yes
• to DP, master	No
• on Ethernet via NTP	Yes
on Windows clock, slave	Yes
Interfaces	
Number of interfaces	3
Number of PROFINET interfaces	2
Number of PROFIBUS interfaces	1
1. Interface	
Interface type	CP 1625
Number of connections	192
Interface types	
RJ 45 (Ethernet)	Yes
— Transmission rate, max.	100 Mbit/s
 Industrial Ethernet status LED 	Yes
Number of ports	2
integrated switch	Yes
Protocols	
IP protocol	Yes; IPv4
PROFINET IO Controller	Yes
PROFINET IO Device	Yes
SIMATIC communication	Yes
Open IE communication	Yes
Web server	Yes
PROFINET IO Controller	
Services	
— Isochronous mode	Yes
— Direct data exchange	Yes; Requirement: IRT and isochronous mode (MRPD optional)
— shortest clock pulse	500 μs
— IRT	Yes
— PROFlenergy	Yes
— Prioritized startup	Yes; max. 32 PROFINET devices; if you want to use the "Prioritized startup" functionality in STEP7 for the PROFINET interface of the CPU, the CPU and the device must be seperated by means of a switch (e.g SCALANCE X205) or CP1625
— Number of connectable IO Devices, max.	256; the maximal amount of supported devices on all interfaces (PN/PB) is 384 in total
 Of which IO devices with IRT, max. 	64
 Number of connectable IO Devices for RT, max. 	256
— of which in line, max.	256
 Number of IO Devices that can be simultaneously activated/deactivated, max. 	8
 IO Devices changing during operation (partner ports), supported 	Yes; the CPU and changing IO devices must be separated by a switch (e.g. SCALANCE X205)
 Number of IO Devices per tool, max. 	8
— 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
Update time for IRT	
— for send cycle of 250 μs	250 µs to 4 ms
— for send cycle of 500 μs	500 µs to 8 ms
— for send cycle of 1 ms	1 ms to 16 ms
— for send cycle of 2 ms	2 ms to 32 ms
— for send cycle of 4 ms	Update time = set "odd" send clock (any multiple of 125 μ s: 375 μ s, 625 μ s 3 875 μ s)
	1 - 7
— With IRT and parameterization of "odd" send cycles	Update time = set "odd" send clock (any multiple of 125 μ s: 375 μ s, 625 μ s 3 875 μ s)
With IRT and parameterization of "odd" send cycles Update time for RT	Update time = set "odd" send clock (any multiple of 125 μ s: 375 μ s, 625 μ s 3
	Update time = set "odd" send clock (any multiple of 125 μ s: 375 μ s, 625 μ s 3
Update time for RT	Update time = set "odd" send clock (any multiple of 125 μ s: 375 μ s, 625 μ s 3 875 μ s)
Update time for RT — for send cycle of 250 μs	Update time = set "odd" send clock (any multiple of 125 μ s: 375 μ s, 625 μ s 3 875 μ s)
Update time for RT — for send cycle of 250 μs — for send cycle of 500 μs	Update time = set "odd" send clock (any multiple of 125 μs: 375 μs, 625 μs 3 875 μs) 250 μs to 128 ms 500 μs to 256 ms



Address area	
— Inputs, max.	16 kbyte
— Outputs, max.	16 kbyte
PROFINET IO Device	
Services	
— Isochronous mode	No
— IRT	Yes
— PROFlenergy	Yes
Prioritized startup	Yes
— Shared device	Yes
Number of IO Controllers with shared device, max.	4
— Asset management record	Yes
2. Interface	165
	Ophograf DDOFINET / IF interfered V2 of the CIMATIC IDC. Intel Contractille
Interface type	Onboard PROFINET / IE interface X2 of the SIMATIC IPC, Intel Springville i210T
Number of connections	192
Interface types	
RJ 45 (Ethernet)	Yes
— Transmission rate, max.	100 Mbit/s
Industrial Ethernet status LED	Yes
Number of ports	1
• integrated switch	No
Protocols	
• IP protocol	Yes; IPv4
PROFINET IO Controller	Yes
PROFINET IO Device	Yes
SIMATIC communication	Yes
Open IE communication	Yes
Web server	Yes
Media redundancy	No
PROFINET IO Controller	NO
Services	
— Isochronous mode	No
— IRT	
— IIXI	
	No Ves
— PROFlenergy	Yes
	Yes Yes; max. 32 PROFINET devices; if you want to use the "Prioritized startup" functionality in STEP 7 for the PROFINET interface of the CPU, the CPU and the device must be separated by means of a switch (e.g. SCALANCE X205)
— PROFlenergy	Yes Yes; max. 32 PROFINET devices; if you want to use the "Prioritized startup" functionality in STEP 7 for the PROFINET interface of the CPU, the CPU and
PROFlenergy Prioritized startup	Yes Yes; max. 32 PROFINET devices; if you want to use the "Prioritized startup" functionality in STEP 7 for the PROFINET interface of the CPU, the CPU and the device must be separated by means of a switch (e.g. SCALANCE X205) 128; the maximal amount of supported devices on all interfaces (PN/PB) is 384 (256+128) in total; theoretically it should be 509 (256+128+125), but it is
 — PROFlenergy — Prioritized startup — Number of connectable IO Devices for RT, max. — of which in line, max. — Number of IO Devices that can be simultaneously 	Yes; max. 32 PROFINET devices; if you want to use the "Prioritized startup" functionality in STEP 7 for the PROFINET interface of the CPU, the CPU and the device must be separated by means of a switch (e.g. SCALANCE X205) 128; the maximal amount of supported devices on all interfaces (PN/PB) is 384 (256+128) in total; theoretically it should be 509 (256+128+125), but it is accepted to be limited to 384
 — PROFlenergy — Prioritized startup — Number of connectable IO Devices for RT, max. — of which in line, max. — Number of IO Devices that can be simultaneously activated/deactivated, max. 	Yes; max. 32 PROFINET devices; if you want to use the "Prioritized startup" functionality in STEP 7 for the PROFINET interface of the CPU, the CPU and the device must be separated by means of a switch (e.g. SCALANCE X205) 128; the maximal amount of supported devices on all interfaces (PN/PB) is 384 (256+128) in total; theoretically it should be 509 (256+128+125), but it is accepted to be limited to 384 128
 — PROFlenergy — Prioritized startup — Number of connectable IO Devices for RT, max. — of which in line, max. — Number of IO Devices that can be simultaneously activated/deactivated, max. — Number of IO Devices per tool, max. 	Yes; max. 32 PROFINET devices; if you want to use the "Prioritized startup" functionality in STEP 7 for the PROFINET interface of the CPU, the CPU and the device must be separated by means of a switch (e.g. SCALANCE X205) 128; the maximal amount of supported devices on all interfaces (PN/PB) is 384 (256+128) in total; theoretically it should be 509 (256+128+125), but it is accepted to be limited to 384 128 8
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— PROFlenergy — Prioritized startup — Number of connectable IO Devices for RT, max. — of which in line, max. — Number of IO Devices that can be simultaneously activated/deactivated, max. — Number of IO Devices per tool, max. — Updating times Address area	Yes; max. 32 PROFINET devices; if you want to use the "Prioritized startup" functionality in STEP 7 for the PROFINET interface of the CPU, the CPU and the device must be separated by means of a switch (e.g. SCALANCE X205) 128; the maximal amount of supported devices on all interfaces (PN/PB) is 384 (256+128) in total; theoretically it should be 509 (256+128+125), but it is accepted to be limited to 384 128 8 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
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— PROFlenergy — Prioritized startup — Number of connectable IO Devices for RT, max. — of which in line, max. — Number of IO Devices that can be simultaneously activated/deactivated, max. — Number of IO Devices per tool, max. — Updating times Address area — Inputs, max. — Outputs, max. PROFINET IO Device Services — Isochronous mode — IRT	Yes; max. 32 PROFINET devices; if you want to use the "Prioritized startup" functionality in STEP 7 for the PROFINET interface of the CPU, the CPU and the device must be separated by means of a switch (e.g. SCALANCE X205) 128; the maximal amount of supported devices on all interfaces (PN/PB) is 384 (256+128) in total; theoretically it should be 509 (256+128+125), but it is accepted to be limited to 384 128 8 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 8 kbyte No No
— PROFlenergy — Prioritized startup — Number of connectable IO Devices for RT, max. — of which in line, max. — Number of IO Devices that can be simultaneously activated/deactivated, max. — Number of IO Devices per tool, max. — Updating times Address area — Inputs, max. — Outputs, max. PROFINET IO Device Services — Isochronous mode — IRT — PROFlenergy	Yes; max. 32 PROFINET devices; if you want to use the "Prioritized startup" functionality in STEP 7 for the PROFINET interface of the CPU, the CPU and the device must be separated by means of a switch (e.g. SCALANCE X205) 128; the maximal amount of supported devices on all interfaces (PN/PB) is 384 (256+128) in total; theoretically it should be 509 (256+128+125), but it is accepted to be limited to 384 128 8 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 8 kbyte No No No Yes
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— PROFlenergy — Prioritized startup — Number of connectable IO Devices for RT, max. — of which in line, max. — Number of IO Devices that can be simultaneously activated/deactivated, max. — Number of IO Devices per tool, max. — Updating times Address area — Inputs, max. — Outputs, max. — Outputs, max. PROFINET IO Device Services — Isochronous mode — IRT — PROFlenergy — Shared device — Number of IO Controllers with shared device, max. — Asset management record	Yes; max. 32 PROFINET devices; if you want to use the "Prioritized startup" functionality in STEP 7 for the PROFINET interface of the CPU, the CPU and the device must be separated by means of a switch (e.g. SCALANCE X205) 128; the maximal amount of supported devices on all interfaces (PN/PB) is 384 (256+128) in total; theoretically it should be 509 (256+128+125), but it is accepted to be limited to 384 128 8 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 8 kbyte No No No Yes Yes
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- PROFlenergy - Prioritized startup - Number of connectable IO Devices for RT, max. - of which in line, max Number of IO Devices that can be simultaneously activated/deactivated, max Number of IO Devices per tool, max Updating times Address area - Inputs, max Outputs, max. PROFINET IO Device Services - Isochronous mode - IRT - PROFlenergy - Shared device - Number of IO Controllers with shared device, max Asset management record 3. Interface Interface type	Yes Yes; max. 32 PROFINET devices; if you want to use the "Prioritized startup" functionality in STEP 7 for the PROFINET interface of the CPU, the CPU and the device must be separated by means of a switch (e.g. SCALANCE X205) 128; the maximal amount of supported devices on all interfaces (PN/PB) is 384 (256+128) in total; theoretically it should be 509 (256+128+125), but it is accepted to be limited to 384 128 8 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 8 kbyte No No Yes Yes Yes 4 Yes
 — PROFlenergy — Prioritized startup — Number of connectable IO Devices for RT, max. — of which in line, max. — Number of IO Devices that can be simultaneously activated/deactivated, max. — Number of IO Devices per tool, max. — Updating times Address area — Inputs, max. — Outputs, max. PROFINET IO Device Services — Isochronous mode — IRT — PROFlenergy — Shared device — Number of IO Controllers with shared device, max. — Asset management record 3. Interface 	Yes; max. 32 PROFINET devices; if you want to use the "Prioritized startup" functionality in STEP 7 for the PROFINET interface of the CPU, the CPU and the device must be separated by means of a switch (e.g. SCALANCE X205) 128; the maximal amount of supported devices on all interfaces (PN/PB) is 384 (256+128) in total; theoretically it should be 509 (256+128+125), but it is accepted to be limited to 384 128 8 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 8 kbyte No No Yes Yes Yes



• RS 485	Yes
Protocols	100
PROFIBUS DP master	Yes
PROFIBUS DP slave	No
SIMATIC communication PROFIBUS DP master	Yes; no PG/STEP 7 connection possible
	64
Number of DP slaves, max.	64
Services	N.
— Equidistance	No
— Isochronous mode	No
Address area	
— Inputs, max.	8 kbyte
— Outputs, max.	8 kbyte
4. Interface	
Interface type	PROFIBUS with CP 5623
Number of connections	44
Interface types	
• RS 485	Yes
Protocols	
PROFIBUS DP master	Yes
PROFIBUS DP slave	No
SIMATIC communication	Yes; no PG/STEP 7 connection possible
PROFIBUS DP master	
Number of DP slaves, max.	125
Services	
— Equidistance	No
— Isochronous mode	No
Address area	
— Inputs, max.	8 kbyte
— Outputs, max.	8 kbyte
Protocols	
Trotocols	
PROFIsafe	No
	No
PROFIsafe Number of connections Number of connections, max.	No 192
PROFIsafe Number of connections Number of connections, max. Number of connections reserved for ES/HMI/web	
PROFIsafe Number of connections Number of connections, max.	192
PROFIsafe Number of connections Number of connections, max. Number of connections reserved for ES/HMI/web	192 10
PROFIsafe Number of connections Number of connections, max. Number of connections reserved for ES/HMI/web Number of S7 routing paths	192 10
PROFIsafe Number of connections Number of connections, max. Number of connections reserved for ES/HMI/web Number of S7 routing paths Redundancy mode Media redundancy — MRP	192 10 16
PROFIsafe Number of connections Number of connections, max. Number of connections reserved for ES/HMI/web Number of S7 routing paths Redundancy mode Media redundancy — MRP — MRPD	192 10 16 Yes Yes; Requirement: IRT
PROFIsafe Number of connections Number of connections, max. Number of connections reserved for ES/HMI/web Number of S7 routing paths Redundancy mode Media redundancy — MRP	192 10 16
PROFIsafe Number of connections Number of connections, max. Number of connections reserved for ES/HMI/web Number of S7 routing paths Redundancy mode Media redundancy — MRP — MRPD	192 10 16 Yes Yes; Requirement: IRT
PROFIsafe Number of connections Number of connections, max. Number of connections reserved for ES/HMI/web Number of S7 routing paths Redundancy mode Media redundancy MRP MRPD Switchover time on line break, typ. Number of stations in the ring, max.	192 10 16 Yes Yes; Requirement: IRT 200 ms; For MRP, bumpless for MRPD
PROFIsafe Number of connections Number of connections, max. Number of connections reserved for ES/HMI/web Number of S7 routing paths Redundancy mode Media redundancy MRP MRPD Switchover time on line break, typ. Number of stations in the ring, max.	192 10 16 Yes Yes; Requirement: IRT 200 ms; For MRP, bumpless for MRPD
PROFIsafe Number of connections Number of connections, max. Number of connections reserved for ES/HMI/web Number of S7 routing paths Redundancy mode Media redundancy MRP MRPD Switchover time on line break, typ. Number of stations in the ring, max.	192 10 16 Yes Yes; Requirement: IRT 200 ms; For MRP, bumpless for MRPD 50
PROFIsafe Number of connections Number of connections, max. Number of connections reserved for ES/HMI/web Number of S7 routing paths Redundancy mode Media redundancy MRP MRPD Switchover time on line break, typ. Number of stations in the ring, max. SIMATIC communication PG/OP communication	192 10 16 Yes Yes; Requirement: IRT 200 ms; For MRP, bumpless for MRPD 50 Yes
PROFIsafe Number of connections Number of connections, max. Number of connections reserved for ES/HMI/web Number of S7 routing paths Redundancy mode Media redundancy MRP MRPD Switchover time on line break, typ. Number of stations in the ring, max. SIMATIC communication PG/OP communication S7 routing	192 10 16 Yes Yes; Requirement: IRT 200 ms; For MRP, bumpless for MRPD 50 Yes Yes
PROFIsafe Number of connections Number of connections, max. Number of connections reserved for ES/HMI/web Number of S7 routing paths Redundancy mode Media redundancy MRP MRPD Switchover time on line break, typ. Number of stations in the ring, max. SIMATIC communication PG/OP communication S7 routing S7 communication, as server	192 10 16 Yes Yes; Requirement: IRT 200 ms; For MRP, bumpless for MRPD 50 Yes Yes Yes Yes
PROFIsafe Number of connections Number of connections, max. Number of connections reserved for ES/HMI/web Number of S7 routing paths Redundancy mode Media redundancy MRP MRPD Switchover time on line break, typ. Number of stations in the ring, max. SIMATIC communication PG/OP communication S7 routing S7 communication, as server S7 communication, as client	192 10 16 Yes Yes; Requirement: IRT 200 ms; For MRP, bumpless for MRPD 50 Yes Yes Yes Yes Yes Yes Yes
PROFIsafe Number of connections Number of connections, max. Number of connections reserved for ES/HMI/web Number of S7 routing paths Redundancy mode Media redundancy MRP MRPD Switchover time on line break, typ. Number of stations in the ring, max. SIMATIC communication PG/OP communication S7 routing S7 communication, as server S7 communication, as client User data per job, max.	192 10 16 Yes Yes; Requirement: IRT 200 ms; For MRP, bumpless for MRPD 50 Yes Yes Yes Yes Yes Yes Yes
PROFIsafe Number of connections Number of connections, max. Number of connections reserved for ES/HMI/web Number of S7 routing paths Redundancy mode Media redundancy MRP MRPD Switchover time on line break, typ. Number of stations in the ring, max. SIMATIC communication PG/OP communication S7 routing S7 communication, as server S7 communication, as client User data per job, max.	192 10 16 Yes Yes; Requirement: IRT 200 ms; For MRP, bumpless for MRPD 50 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
PROFIsafe Number of connections Number of connections, max. Number of connections reserved for ES/HMI/web Number of S7 routing paths Redundancy mode Media redundancy MRP MRPD Switchover time on line break, typ. Number of stations in the ring, max. SIMATIC communication PG/OP communication S7 routing S7 communication, as server S7 communication, as client User data per job, max. Open IE communication TCP/IP	192 10 16 Yes Yes; Requirement: IRT 200 ms; For MRP, bumpless for MRPD 50 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
PROFIsafe Number of connections Number of connections, max. Number of connections reserved for ES/HMI/web Number of S7 routing paths Redundancy mode Media redundancy MRP MRPD Switchover time on line break, typ. Number of stations in the ring, max. SIMATIC communication PG/OP communication S7 routing S7 communication, as server S7 communication, as client User data per job, max. Open IE communication TCP/IP Data length, max.	192 10 16 Yes Yes; Requirement: IRT 200 ms; For MRP, bumpless for MRPD 50 Yes Yes Yes Yes Yes Yes Yes 4 kbyte; BSEND/BRCV: 64 KB; PUT/GET: 960 bytes Yes 64 kbyte
PROFIsafe Number of connections Number of connections, max. Number of connections reserved for ES/HMI/web Number of S7 routing paths Redundancy mode Media redundancy MRP MRPD Switchover time on line break, typ. Number of stations in the ring, max. SIMATIC communication PG/OP communication S7 routing S7 communication, as server S7 communication, as client User data per job, max. Open IE communication TCP/IP Data length, max. ISO-on-TCP (RFC1006)	192 10 16 Yes Yes; Requirement: IRT 200 ms; For MRP, bumpless for MRPD 50 Yes Yes Yes Yes Yes Yes 64 kbyte; BSEND/BRCV: 64 KB; PUT/GET: 960 bytes Yes 64 kbyte Yes
PROFIsafe Number of connections Number of connections, max. Number of connections reserved for ES/HMI/web Number of S7 routing paths Redundancy mode Media redundancy MRP MRPD Switchover time on line break, typ. Number of stations in the ring, max. SIMATIC communication PG/OP communication S7 routing S7 communication, as server S7 communication, as client User data per job, max. Open IE communication TCP/IP Data length, max. ISO-on-TCP (RFC1006) Data length, max.	192 10 16 Yes Yes; Requirement: IRT 200 ms; For MRP, bumpless for MRPD 50 Yes Yes Yes Yes Yes 4 kbyte; BSEND/BRCV: 64 KB; PUT/GET: 960 bytes Yes 64 kbyte Yes 64 kbyte
PROFIsafe Number of connections Number of connections, max. Number of connections reserved for ES/HMI/web Number of S7 routing paths Redundancy mode Media redundancy MRP MRPD Switchover time on line break, typ. Number of stations in the ring, max. SIMATIC communication PG/OP communication S7 routing S7 communication, as server S7 communication, as client User data per job, max. Open IE communication TCP/IP Data length, max. ISO-on-TCP (RFC1006) Data length, max.	192 10 16 Yes Yes; Requirement: IRT 200 ms; For MRP, bumpless for MRPD 50 Yes Yes Yes Yes 4 kbyte; BSEND/BRCV: 64 KB; PUT/GET: 960 bytes Yes 64 kbyte Yes 64 kbyte Yes
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PROFIsafe Number of connections Number of connections, max. Number of connections reserved for ES/HMI/web Number of S7 routing paths Redundancy mode Media redundancy MRP MRPD Switchover time on line break, typ. Number of stations in the ring, max. SIMATIC communication PG/OP communication S7 routing S7 communication, as server S7 communication, as client User data per job, max. Open IE communication TCP/IP Data length, max. ISO-on-TCP (RFC1006) Data length, max. UDP Data length, max. UDP Data length, max. UDP multicast	192 10 16 Yes Yes; Requirement: IRT 200 ms; For MRP, bumpless for MRPD 50 Yes Yes Yes Yes Yes 64 kbyte; BSEND/BRCV: 64 KB; PUT/GET: 960 bytes Yes 64 kbyte Yes 65 kbyte Yes 66 kbyte Yes 66 kbyte Yes 67 kbyte Yes 68 kbyte Yes 69 kbyte
PROFIsafe Number of connections Number of connections, max. Number of connections reserved for ES/HMI/web Number of S7 routing paths Redundancy mode Media redundancy MRP MRPD Switchover time on line break, typ. Number of stations in the ring, max. SIMATIC communication PG/OP communication S7 routing S7 communication, as server S7 communication, as client User data per job, max. Open IE communication TCP/IP Data length, max. ISO-on-TCP (RFC1006) Data length, max. UDP Data length, max. UDP Data length, max. UDP Data length, max. UDP multicast DHCP	192 10 16 Yes Yes; Requirement: IRT 200 ms; For MRP, bumpless for MRPD 50 Yes Yes Yes Yes Yes Yes 4 kbyte; BSEND/BRCV: 64 KB; PUT/GET: 960 bytes Yes 64 kbyte Yes 64 kbyte Yes 2 kbyte Yes; 128 multicast circuits (of which max. 5 via CP 1625) Yes
PROFIsafe Number of connections Number of connections, max. Number of connections reserved for ES/HMI/web Number of S7 routing paths Redundancy mode Media redundancy MRP MRPD Switchover time on line break, typ. Number of stations in the ring, max. SIMATIC communication PG/OP communication S7 routing S7 communication, as server S7 communication, as client User data per job, max. Open IE communication TCP/IP Data length, max. ISO-on-TCP (RFC1006) Data length, max. UDP Data length, max. UDP multicast DHCP DNS	192 10 16 Yes Yes; Requirement: IRT 200 ms; For MRP, bumpless for MRPD 50 Yes Yes Yes Yes Yes Yes 4 kbyte; BSEND/BRCV: 64 KB; PUT/GET: 960 bytes Yes 64 kbyte Yes 64 kbyte Yes 2 kbyte Yes; 128 multicast circuits (of which max. 5 via CP 1625) Yes Yes
PROFIsafe Number of connections Number of connections, max. Number of connections reserved for ES/HMI/web Number of S7 routing paths Redundancy mode Media redundancy MRP MRPD Switchover time on line break, typ. Number of stations in the ring, max. SIMATIC communication PG/OP communication S7 routing S7 communication, as server S7 communication, as client User data per job, max. Open IE communication TCP/IP Data length, max. ISO-on-TCP (RFC1006) Data length, max. UDP SNMP	192 10 16 Yes Yes; Requirement: IRT 200 ms; For MRP, bumpless for MRPD 50 Yes Yes Yes Yes 64 kbyte; BSEND/BRCV: 64 KB; PUT/GET: 960 bytes Yes 64 kbyte Yes 64 kbyte Yes 2 kbyte Yes; 128 multicast circuits (of which max. 5 via CP 1625) Yes Yes



Web server	
• HTTP	Yes
• HTTPS	Yes
OPC UA	
Runtime license required	Yes; "Large" license required
OPC UA Client	Yes; Data access (read, write), method call
— Security policies	Yes; Available security policies: None, Basic128Rsa15, Basic256Rsa15, Basic256Sha256
 User authentication 	Yes; "anonymous" or by user name & password
Number of connections, max.	40
 Number of nodes of the client interfaces, recommended max. 	5 000
 Number of elements for one call of OPC_UA_NodeGetHandleList/OPC_UA_ReadList/OPC_I max. 	300
 Number of elements for one call of OPC_UA_NameSpaceGetIndexList, max. 	20
 Number of elements for one call of OPC_UA_MethodGetHandleList, max. 	100
 Number of simultaneous calls of the client instructions for session management, per connection, max. 	1
 Number of simultaneous calls of the client instructions for data access, per connection, max. 	5
 Number of registerable nodes, max. 	5 000
 Number of registerable method calls of OPC_UA_MethodCall, max. 	100
— Number of inputs/outputs when calling OPC_UA_MethodCall, max.	20
OPC UA Server	Yes; Data access (read, write, subscribe), method call, custom address space
 Application authentication 	Yes
— Security policies	Yes; Available security policies: None, Basic128Rsa15, Basic256Rsa15, Basic256Sha256
 User authentication 	Yes; "anonymous" or by user name & password
Number of sessions, max.	64
 Number of accessible variables, max. 	200 000
 Number of registerable nodes, max. 	50 000
 Number of subscriptions per session, max. 	20
— Sampling interval, min.	10 ms
— Publishing interval, min.	10 ms
 Number of server methods, max. 	100
 Number of inputs/outputs per server method, max. 	20
 Number of monitored items, recommended max. 	10 000; for 1 s sampling interval and 1 s send interval
 Number of server interfaces, max. 	10
 Number of nodes for user-defined server interfaces, max. 	30 000
Further protocols	
MODBUS	Yes; MODBUS TCP
S7 message functions	
Number of login stations for message functions, max.	32
Program alarms	Yes
Number of configurable program messages, max.	10 000
Number of loadable program messages in RUN, max.	5 000
Number of simultaneously active program alarms	1 000
Number of program alarms	1 000
Number of program alarms Number of alarms for system diagnostics	200
Number of alarms for system diagnostics Number of alarms for motion technology objects	160
Test commissioning functions	
Joint commission (Team Engineering)	Yes; Parallel online access possible for up to 10 engineering systems
Status block	Yes; up to 8 simultaneously
Single step	Yes
Number of breakpoints	8
Status/control	
Status/control variable	Yes



Variables	Inputs, outputs, memory bits, DB, times, counters
 Number of variables, max. 	
of which status variables, max.	200
— of which control variables, max.	200
Forcing	
Forcing	Yes
Forcing, variables	Inputs, outputs
 Number of variables, max. 	200
Diagnostic buffer	
• present	Yes
Number of entries, max.	1 000
— of which powerfail-proof	300
Traces	
Number of configurable Traces	4
Memory size per trace, max.	512 kbyte
	312 kDyte
Interrupts/diagnostics/status information	
Diagnostics indication LED	V
• RUN/STOP LED	Yes; HW LED of SIMATIC IPC227E, IPC427D/E, IPC627D/E, IPC827D, IPC677D/E
• ERROR LED	Yes; HW LED of SIMATIC IPC227E, IPC427D/E, IPC627D/E, IPC826D, IPC677D/E
MAINT LED	Yes; HW LED of SIMATIC IPC227E, IPC427D/E, IPC627D/E, IPC827D, IPC677D/E
Supported technology objects	
Motion Control	Yes; Note: The number of technology objects affects the cycle time of the PLC
	program; selection guide via the TIA Selection Tool or SIZER
 Number of available Motion Control resources for technology objects 	4 800
 Required Motion Control resources 	
per speed-controlled axis	40
— per positioning axis	80
— per synchronous axis	160
— per external encoder	80
— per external cheoder — per output cam	20
	160
— per cam track	
— per probe	40
Positioning axis	00 0 1001075 1 1 1 1 1
 Number of positioning axes at motion control cycle of 4 ms (typical value) 	30; On IPC427E, Intel Xeon processor
 Number of positioning axes at motion control cycle of 8 ms (typical value) 	60; On IPC427E, Intel Xeon processor
Controller	
 PID_Compact 	Yes; Universal PID controller with integrated optimization
PID_3Step	Yes; PID controller with integrated optimization for valves
PID-Temp	Yes; PID controller with integrated optimization for temperature
Counting and measuring	
High-speed counter	Yes
Hardware requirement	
Hardware required	SIMATIC IPC4x7E, IPC6x7D/E, IPC8x7D/E
Processor	,
Single-core processor	No
Single-core processor with hyper-threading	No
Multi-core processor	Yes
Multi-core processor Multi-core processor with hyper-threading	Yes
occupied cores	1; For multicore processors with activated Hyper-Threading, one complete physical core is reserved for the CPU 1507S
Memory	
 Work memory, min. 	8 Gbyte
 Hard disk memory required for installation 	720 Mbyte
Temporary hard disk memory for installation	230 Mbyte
Hard disk memory required at runtime	1 000 Mbyte
Operating systems	
Runs under operating system	
a complete of production	



• Windows 7

• Windows 10

Yes; Professional, Enterprise, Ultimate (32 bit and 64 bit); Windows Embedded Standard 7 with delivery image of the SIMATIC IPC

Yes; Windows 10 Enterprise 2016 LTSB, 64-bit, MUI on IPC2x7E, IPC4x7E, IPC6x7D, IPC8x7D; Windows 10 Enterprise 2019 LTSC 64-bit, MUI on IPC2x7E, IPC4x7E, IPC6x7E, IPC8x7E

configuration / header	
configuration / programming / header	
Programming language	
— LAD	Yes
— FBD	Yes
— STL	Yes
— SCL	Yes
— CFC	No
— GRAPH	Yes
Know-how protection	
 User program protection/password protection 	Yes
 Copy protection 	Yes
Block protection	Yes
Access protection	
 Protection level: Write protection 	Yes
 Protection level: Read/write protection 	Yes
Protection level: Complete protection	Yes
programming / cycle time monitoring / header	
 lower limit 	adjustable minimum cycle time
upper limit	adjustable maximum cycle time
Open Development interfaces	
Size of ODK SO file, max.	9.8 Mbyte

last modified:

4/1/2022

