SIEMENS

Data sheet

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SIMATIC S7-1500 Failsafe Software Controller CPU 1507S F 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 and Windows 10; reference HW: SIMATIC IPC2x7E, IPC4x7E, IPC4x7D, IPC6x7E, IPC6x7E, IPC627D, IPC677D, IPC827D

General information	
Product type designation	CPU 1507S F
Product function	
• I&M data	Yes; I&M0 to I&M3
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	V16 with HSP 287
Configuration control	
via dataset	Yes
Memory	
SIMATIC memory card required	No; Use of the PC mass storage
Work memory	
integrated (for program)	7.5 Mbyte
integrated (for data)	20 Mbyte
 integrated (for CPU function library of CPU Runtime) 	50 Mbyte
Load memory	
integrated (on PC mass storage)	320 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
Number of synchronous error OBs	2
Number of diagnostic alarm OBs	1
Nesting depth	<u>'</u>
• per priority class	24
Counters, timers and their retentivity	27
S7 counter	
	2.040
Number Detectivity	2 048
Retentivity	Yes
— adjustable	res
IEC counter	And forth the the section of the sec
Number Patasticity	Any (only limited by the main memory)
Retentivity	V
— adjustable	Yes
S7 times	2.040
Number Patentinity	2 048
Retentivity	Ven
— adjustable	Yes
IEC timer	Any (only limited by the main memory)
Number Patantinity	Any (only limited by the main memory)
Retentivity	Ven
— adjustable	Yes
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	135 kbyte
Extended retentive data area (incl. timers, counters, flags), max.	20 Mbyte
Flag	
Number, max.	16 kbyte
Number of clock memories	8
Data blocks	
Retentivity adjustable	Yes
Retentivity preset	No
Local data	
per priority class, max.	64 kbyte
Address area	
Number of IO modules	8 192
I/O address area	0.02
• Inputs	32 kbyte
• Outputs	32 kbyte
Subprocess images	
Number of subprocess images, max.	32
Hardware configuration	
Number of distributed IO systems	20
Number of DP masters	20
via PC interfaces	1
Via PC interfaces Number of IO Controllers	
via PC interfaces	1; any combination of RT or IRT interfaces
♥ via i O iliteriaces	i, any combination of its of its filteriaces

Time of day	
Clock	
• Type	Software clock, synchronizable, no battery backup
Operating hours counter	
Number	16
Clock synchronization	
supported	Yes
• to DP, master	No
on Ethernet via NTP	Yes
 on Windows clock, slave 	Yes
nterfaces	
Number of interfaces	3
Number of PROFINET interfaces	2; In case of I-Device configuration, only one PROFINET interface is supported
Number of PROFIBUS interfaces	1
I. Interface	
Interface type	CP 1625
Number of connections	128
Interface types	120
• RJ 45 (Ethernet)	Yes
— Transmission rate, max.	100 Mbit/s
— Industrial Ethernet status LED	Yes
	res 2
Number of ports integrated quiteb	
• integrated switch	Yes
Protocols a DDOFINET IO Controller	Voc
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
 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
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. 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
— Number of IO Devices per tool, max.— Updating times	The minimum value of the update time also depends on communication
Number of IO Devices per tool, max. Updating times Update time for IRT	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
 Number of IO Devices per tool, max. Updating times Update time for IRT for send cycle of 250 μs 	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 250 µs to 4 ms
 Number of IO Devices per tool, max. Updating times Update time for IRT for send cycle of 250 μs for send cycle of 500 μs 	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 $250~\mu s \ to \ 4~ms$ $500~\mu s \ to \ 8~ms$
 — Number of IO Devices per tool, max. — Updating times Update time for IRT — for send cycle of 250 μs — for send cycle of 500 μs — for send cycle of 1 ms 	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 $250~\mu s \ to \ 4~ms \\ 500~\mu s \ to \ 8~ms \\ 1~ms \ to \ 16~ms$
 Number of IO Devices per tool, max. Updating times Update time for IRT for send cycle of 250 μs for send cycle of 500 μs 	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 $250~\mu s \ to \ 4~ms$ $500~\mu s \ to \ 8~ms$

 With IRT and parameterization of "odd" send cycles 	Update time = set "odd" send clock (any multiple of 125 μs : 375 μs , 625 μs 3 875 μs)
Update time for RT	
for send cycle of 250 μs	250 µs to 128 ms
— for send cycle of 500 μs	500 μs to 256 ms
— for send cycle of 1 ms	1 ms to 512 ms
— for send cycle of 2 ms	2 ms to 512 ms
— for send cycle of 4 ms	4 ms to 512 ms
Address area	
— Inputs, max.	8 kbyte
— Outputs, max.	8 kbyte
PROFINET IO Device	o noyto
Services	
	No
— Isochronous mode	
— IRT	Yes
— PROFlenergy	Yes
— Prioritized startup	Yes; 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)
— Shared device	Yes
 Number of IO Controllers with shared device, max. 	4
 Asset management record 	Yes
2. Interface	
Interface type	Onboard PROFINET / IE interface X2/X3 of the SIMATIC IPC, Intel Springville i210T
Number of connections via this interface	128
Interface types	
RJ 45 (Ethernet)	Yes
— Transmission rate, max.	100 Mbit/s
Industrial Ethernet status LED	Yes
	1
Number of ports integrated quiteb	
• integrated switch	No
Protocols	V
PROFINET IO Controller	Yes
PROFINET IO Device	Yes
 SIMATIC communication 	Yes
 Open IE communication 	Yes
Web server	Yes
Media redundancy	No
PROFINET IO Controller	
Services	
— Isochronous mode	No
— IRT	No
— PROFlenergy	Yes
— Prioritized startup	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)
 Number of connectable IO Devices for RT, max. 	128
— of which in line, max.	128
 Number of IO Devices that can be simultaneously activated/deactivated, max. 	8
 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
Address area	
— Inputs, max.	8 kbyte
— Outputs, max.	8 kbyte
• •	•

PROFINET IO Device	
Services	
— Isochronous mode	No
— IRT	No
— PROFlenergy	Yes
— Shared device	Yes
Number of IO Controllers with shared device,	4
max.	7
 Asset management record 	Yes
3. Interface	
Interface type	PROFIBUS with CP 5622, CP 5622 onboard
Number of connections via this interface	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.	64
Services	
— 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 via this interface	44

injerface types	
Interface types • RS 485	Yes
● RS 485	Yes
• RS 485 Protocols	
RS 485 Protocols PROFIBUS DP master	Yes
RS 485 Protocols PROFIBUS DP master PROFIBUS DP slave	Yes No
 RS 485 Protocols PROFIBUS DP master PROFIBUS DP slave SIMATIC communication 	Yes
 RS 485 Protocols PROFIBUS DP master PROFIBUS DP slave SIMATIC communication PROFIBUS DP master 	Yes No Yes; no PG/STEP 7 connection possible
 RS 485 Protocols PROFIBUS DP master PROFIBUS DP slave SIMATIC communication PROFIBUS DP master Number of DP slaves, max. 	Yes No
 RS 485 Protocols PROFIBUS DP master PROFIBUS DP slave SIMATIC communication PROFIBUS DP master Number of DP slaves, max. Services 	Yes No Yes; no PG/STEP 7 connection possible
 RS 485 Protocols PROFIBUS DP master PROFIBUS DP slave SIMATIC communication PROFIBUS DP master Number of DP slaves, max. Services Equidistance 	Yes No Yes; no PG/STEP 7 connection possible
 RS 485 Protocols PROFIBUS DP master PROFIBUS DP slave SIMATIC communication PROFIBUS DP master Number of DP slaves, max. Services 	Yes No Yes; no PG/STEP 7 connection possible 125
 RS 485 Protocols PROFIBUS DP master PROFIBUS DP slave SIMATIC communication PROFIBUS DP master Number of DP slaves, max. Services Equidistance Isochronous mode Address area 	Yes No Yes; no PG/STEP 7 connection possible 125 No No
 RS 485 Protocols PROFIBUS DP master PROFIBUS DP slave SIMATIC communication PROFIBUS DP master Number of DP slaves, max. Services — Equidistance — Isochronous mode Address area — Inputs, max. 	Yes No Yes; no PG/STEP 7 connection possible 125 No No No
 RS 485 Protocols PROFIBUS DP master PROFIBUS DP slave SIMATIC communication PROFIBUS DP master Number of DP slaves, max. Services Equidistance Isochronous mode Address area Inputs, max. Outputs, max. 	Yes No Yes; no PG/STEP 7 connection possible 125 No No
 RS 485 Protocols PROFIBUS DP master PROFIBUS DP slave SIMATIC communication PROFIBUS DP master Number of DP slaves, max. Services Equidistance Isochronous mode Address area Inputs, max. Outputs, max. Protocols 	Yes No Yes; no PG/STEP 7 connection possible 125 No No No
 RS 485 Protocols PROFIBUS DP master PROFIBUS DP slave SIMATIC communication PROFIBUS DP master Number of DP slaves, max. Services — Equidistance — Isochronous mode Address area — Inputs, max. — Outputs, max. Protocols Number of connections 	Yes No Yes; no PG/STEP 7 connection possible 125 No No 8 kbyte 8 kbyte
 RS 485 Protocols PROFIBUS DP master PROFIBUS DP slave SIMATIC communication PROFIBUS DP master Number of DP slaves, max. Services Equidistance Isochronous mode Address area Inputs, max. Outputs, max. Protocols Number of connections, max. 	Yes No Yes; no PG/STEP 7 connection possible 125 No No 8 kbyte 8 kbyte
RS 485 Protocols PROFIBUS DP master PROFIBUS DP slave SIMATIC communication PROFIBUS DP master Number of DP slaves, max. Services Equidistance Isochronous mode Address area Inputs, max. Outputs, max. Protocols Number of connections Number of connections, max. Number of connections reserved for ES/HMI/web	Yes No Yes; no PG/STEP 7 connection possible 125 No No 8 kbyte 8 kbyte 128 10
 RS 485 Protocols PROFIBUS DP master PROFIBUS DP slave SIMATIC communication PROFIBUS DP master Number of DP slaves, max. Services Equidistance Isochronous mode Address area Inputs, max. Outputs, max. Protocols Number of connections, max. Number of connections reserved for ES/HMI/web Number of S7 routing paths 	Yes No Yes; no PG/STEP 7 connection possible 125 No No 8 kbyte 8 kbyte
 ■ RS 485 Protocols ■ PROFIBUS DP master ■ PROFIBUS DP slave ■ SIMATIC communication PROFIBUS DP master ■ Number of DP slaves, max. Services — Equidistance — Isochronous mode Address area — Inputs, max. — Outputs, max. Protocols Number of connections ■ Number of connections, max. ● Number of connections reserved for ES/HMI/web ● Number of S7 routing paths Redundancy mode 	Yes No Yes; no PG/STEP 7 connection possible 125 No No 8 kbyte 8 kbyte 128 10
■ RS 485 Protocols ■ PROFIBUS DP master ■ PROFIBUS DP slave ■ SIMATIC communication PROFIBUS DP master ■ Number of DP slaves, max. Services — Equidistance — Isochronous mode Address area — Inputs, max. — Outputs, max. Protocols Number of connections ■ Number of connections, max. ■ Number of connections reserved for ES/HMI/web ■ Number of S7 routing paths Redundancy mode Media redundancy	Yes No Yes; no PG/STEP 7 connection possible 125 No No 8 kbyte 8 kbyte 128 10 16
 RS 485 Protocols PROFIBUS DP master PROFIBUS DP slave SIMATIC communication PROFIBUS DP master Number of DP slaves, max. Services — Equidistance — Isochronous mode Address area — Inputs, max. — Outputs, max. Protocols Number of connections Number of connections reserved for ES/HMI/web Number of S7 routing paths Redundancy mode Media redundancy — MRP 	Yes No Yes; no PG/STEP 7 connection possible 125 No No 8 kbyte 8 kbyte 128 10 16
 RS 485 Protocols PROFIBUS DP master PROFIBUS DP slave SIMATIC communication PROFIBUS DP master Number of DP slaves, max. Services Equidistance Isochronous mode Address area Inputs, max. Outputs, max. Protocols Number of connections Number of connections reserved for ES/HMI/web Number of S7 routing paths Redundancy mode Media redundancy MRP MRPD 	Yes No Yes; no PG/STEP 7 connection possible 125 No No 8 kbyte 8 kbyte 128 10 16 Yes Yes; Requirement: IRT
 RS 485 Protocols PROFIBUS DP master PROFIBUS DP slave SIMATIC communication PROFIBUS DP master Number of DP slaves, max. Services Equidistance Isochronous mode Address area Inputs, max. Outputs, max. Protocols Number of connections 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. 	Yes No Yes; no PG/STEP 7 connection possible 125 No No 8 kbyte 8 kbyte 128 10 16 Yes Yes; Requirement: IRT 200 ms; For MRP, bumpless for MRPD
 RS 485 Protocols PROFIBUS DP master PROFIBUS DP slave SIMATIC communication PROFIBUS DP master Number of DP slaves, max. Services — Equidistance — Isochronous mode Address area — Inputs, max. — Outputs, max. Protocols Number of connections 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. 	Yes No Yes; no PG/STEP 7 connection possible 125 No No 8 kbyte 8 kbyte 128 10 16 Yes Yes; Requirement: IRT
 RS 485 Protocols PROFIBUS DP master PROFIBUS DP slave SIMATIC communication PROFIBUS DP master Number of DP slaves, max. Services Equidistance Isochronous mode Address area Inputs, max. Outputs, max. Protocols Number of connections 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	Yes; no PG/STEP 7 connection possible 125 No No 8 kbyte 8 kbyte 128 10 16 Yes Yes; Requirement: IRT 200 ms; For MRP, bumpless for MRPD 50
 RS 485 Protocols PROFIBUS DP master PROFIBUS DP slave SIMATIC communication PROFIBUS DP master Number of DP slaves, max. Services Equidistance Isochronous mode Address area Inputs, max. Outputs, max. Protocols Number of connections 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 	Yes; no PG/STEP 7 connection possible 125 No No 8 kbyte 8 kbyte 128 10 16 Yes Yes; Requirement: IRT 200 ms; For MRP, bumpless for MRPD 50 Yes
 RS 485 Protocols PROFIBUS DP master PROFIBUS DP slave SIMATIC communication PROFIBUS DP master Number of DP slaves, max. Services Equidistance Isochronous mode Address area Inputs, max. Outputs, max. Protocols Number of connections 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	Yes; no PG/STEP 7 connection possible 125 No No 8 kbyte 8 kbyte 128 10 16 Yes Yes; Requirement: IRT 200 ms; For MRP, bumpless for MRPD 50

S7 communication, as client	Yes
User data per job, max.	64 kbyte; BSEND/BRCV: 64 KB; PUT/GET: 960 bytes
Open IE communication	
• TCP/IP	Yes
— Data length, max.	64 kbyte
• ISO-on-TCP (RFC1006)	Yes
— Data length, max.	64 kbyte
• UDP	Yes
— Data length, max.	2 kbyte
— UDP multicast	Yes
• DHCP	No
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
Web server	
• HTTP	Yes
• HTTPS	Yes
OPC UA	
Runtime license required	Yes
OPC UA Client	Yes; Data access (read, write), method call
Application authentication	Yes
Security policies	Yes
User authentication	Yes
Number of connections, max.	40
Number of nodes of the client interfaces, max.	5 000
 Number of elements for one call of OPC_UA_NodeGetHandleList/OPC_UA_ReadList/O 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 per connection (except OPC_UA_ReadList,OPC_UA_WriteList,OPC_UA_M max. 	1
 Number of simultaneous calls of the client instructions OPC_UA_ReadList,OPC_UA_WriteList and OPC_UA_MethodCall, 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
 User authentication 	Yes
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, 	20
max.	
Number of monitored items, max.	10 000
Number of server interfaces, max.	10
 Number of nodes for user-defined server 	30 000

interfaces, max.	
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 alarms for system diagnostics	200
Number of alarms for system diagnostics Number of alarms for motion technology objects	160
Test commissioning functions	100
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	O
Status/control variable	Yes
Variables	Inputs, outputs, memory bits, DB, times, counters
Number of variables, max.	inpate, outpute, memory bite, DD, times, counters
- of which status variables, max.	200
of which control variables, max.	200
Forcing	200
Forcing	Yes
Forcing, variables	Inputs, outputs
Number of variables, max.	200
Diagnostic buffer	200
• 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
Interrupts/diagnostics/status information	
Diagnostics indication LED	
RUN/STOP LED	Yes; HW LED of SIMATIC IPC227E, IPC427D/E, IPC627D/E, IPC827D,
• KOWSTOF LLD	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, IPC826D, IPC677D/E
Supported technology objects	
Motion Control	Yes; Note: The number of technology objects affects the cycle time of
 Number of available Motion Control resources for technology objects 	the PLC program; selection guide via the TIA Selection Tool or SIZER 4 800
Required Motion Control resources Per speed controlled axis	40
— per speed-controlled axis	
— per positioning axis	80
— per synchronous axis	160
— per external encoder	80
— per output cam	20
— per cam track	160
— per probe	40
Positioning axis	20
Number of positioning axes at motion control cycle of 4 ms (typical value)	30
 Number of positioning axes at motion control 	60

cycle of 8 ms (typical value)	
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	100, 110 controller with integrated optimization for temperature
High-speed counter	Yes
Standards, approvals, certificates	
Highest safety class achievable in safety mode	
Performance level according to ISO 13849-1	PLe
SIL acc. to IEC 61508	SIL 3
Probability of failure (for service life of 20 years and rep	
Low demand mode: PFDavg in accordance with SIL3	< 2.00E-05
— High demand/continuous mode: PFH in	< 1.00E-09
accordance with SIL3	
Hardware requirement	
Hardware required	SIMATIC IPC2x7E, IPC4x7D/E, IPC627D, IPC677D, IPC827D: configurations with NVRAM required; IPC6x7E, IPC8x7E
Processor	
Single-core processor	No
 Single-core processor with hyper-threading 	No
 Multi-core processor 	Yes
 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.	4 Gbyte
 Hard disk memory required for installation 	720 Mbyte
 Temporary hard disk memory for installation 	230 Mbyte
Hard disk memory required at runtime	400 Mbyte
Operating systems	
Runs under operating system	
• Windows 7	Yes; Professional, Enterprise, Ultimate (32 bit and 64 bit); Windows
	Embedded Standard 7 with delivery image of the SIMATIC IPC
Windows 10	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	
Programming	
Programming language	
— LAD	Yes; incl. failsafe
— FBD	Yes; incl. failsafe
— 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: Write protection for Failsafe	Yes
Protection level: Write protection of alisate Protection level: Complete protection	Yes
Cycle time monitoring	100
• lower limit	adjustable minimum cycle time
• upper limit	adjustable maximum cycle time
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Open Development interfaces • Size of ODK SO file, max. 9.8 Mbyte 1/16/2021

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