Data sheet

6ES7516-3TN00-0AB0



SIMATIC S7-1500T, CPU 1516T-3 PN/DP, central processing unit with work memory 3 MB for program and 7.5 MB for data, 1st interface: PROFINET IRT with 2-port switch, 2nd interface, Ethernet, 3rd interface, PROFIBUS, 6 ns bit performance, SIMATIC Memory Card required

General information		
Product type designation	CPU 1516T-3 PN/DP	
HW functional status	FS11	
Firmware version	V3.1	
FW update possible	Yes	
Product function		
● I&M data	Yes; I&M0 to I&M3	
• Isochronous mode	Yes; Distributed and central; with minimum OB 6x cycle of 375 μs (distributed) and 1 ms (central)	
SysLog	Yes	
Engineering with		
STEP 7 TIA Portal configurable/integrated from version	V19 (FW V3.1) / V15 (FW V2.5) or higher	
Configuration control		
via dataset	Yes	
Display		
Screen diagonal [cm]	6.1 cm	
Control elements		
Number of keys	6	
Mode selector switch	1	
Supply voltage		
Rated value (DC)	24 V	
permissible range, lower limit (DC)	19.2 V	
permissible range, upper limit (DC)	28.8 V	
Reverse polarity protection	Yes	
Mains buffering		
 Mains/voltage failure stored energy time 	5 ms	
Repeat rate, min.	1/s	
Input current		
Current consumption (rated value)	1.2 A	
Current consumption, max.	1.5 A	
Inrush current, max.	1.9 A; Rated value	
l²t	0.4 A ² ·s	
Power		
Infeed power to the backplane bus	12 W	
Power consumption from the backplane bus (balanced)	30 W	
Power loss		
Power loss, typ.	24 W	
Memory		
Number of slots for SIMATIC memory card	1	
SIMATIC memory card required	Yes	

Mode manager	
Work memory	2 Mbyto
• integrated (for program)	3 Mbyte
integrated (for data)	7.5 Mbyte
Load memory	
Plug-in (SIMATIC Memory Card), max.	32 Gbyte
Backup	
maintenance-free	Yes
CPU processing times	
for bit operations, typ.	6 ns
for word operations, typ.	7 ns
for fixed point arithmetic, typ.	9 ns
for floating point arithmetic, typ.	37 ns
CPU-blocks	
Number of elements (total)	8 000; Blocks (OB, FB, FC, DB) and UDTs
DB	
Number range	1 60 999; subdivided into: number range that can be used by the user: 1
	59 999, and number range of DBs created via SFC 86: 60 000 60 999
• Size, max.	7.5 Mbyte; For DBs with absolute addressing, the max. size is 64 KB
FB	
Number range	0 65 535
• Size, max.	1 Mbyte
FC	
Number range	0 65 535
Size, max.	1 Mbyte
OB	
• Size, max.	1 Mbyte
 Number of free cycle OBs 	100
 Number of time alarm OBs 	20
 Number of delay alarm OBs 	20
 Number of cyclic interrupt OBs 	20; With minimum OB 3x cycle of 250 μs
 Number of process alarm OBs 	50
 Number of DPV1 alarm OBs 	3
 Number of isochronous mode OBs 	3
 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	
per priority class	24
Counters, timers and their retentivity	
S7 counter	
Number	2 048
Retentivity	2010
·	Yes
— adjustable	100
IEC counter • Number	Any (only limited by the main memory)
	Any (only limited by the main memory)
Retentivity	Voc
— adjustable	Yes
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.	512 kbyte; In total; available retentive memory for bit memories, timers,
	counters, DBs, and technology data (axes): 472 KB
Extended retentive data area (incl. timers, counters, flags), max.	7.5 Mbyte; When using PS 6 0W 24/48/60 V DC HF

Flag	
• Size, max.	16 kbyte
Number of clock memories	8; 8 clock memory bit, grouped into one clock memory byte
Data blocks	=, a season mana. I say 3 support the one drown monthly byte
Retentivity adjustable	Yes
Retentivity adjustable Retentivity preset	No
Local data	
• per priority class, max.	64 kbyte; max. 16 KB per block
Address area	o mayte, make to the per blook
Number of IO modules	8 192; max. number of modules / submodules
I/O address area	6 192, max. number of modules / submodules
• Inputs	32 kbyte; All inputs are in the process image
Outputs	32 kbyte; All outputs are in the process image
per integrated IO subsystem	52 kbyte, All outputs are in the process image
— Inputs (volume)	8 kbyte
— Outputs (volume)	8 kbyte
per CM/CP	o nuyto
— Inputs (volume)	8 kbyte
— Outputs (volume)	8 kbyte
	o kuyte
Subprocess images • Number of subprocess images, max.	32
Hardware configuration	02
	64: A distributed I/O system is sharesterized not sale by the interretion of
Number of distributed IO systems	64; A distributed I/O system is characterized not only by the integration of distributed I/O via PROFINET or PROFIBUS communication modules, but also by the connection of I/O via AS-i master modules or links (e.g. IE/PB-Link)
Number of DP masters	
• integrated	1
	8; A maximum of 8 CMs/CPs (PROFIBUS, PROFINET, Ethernet) can be inserted in total
Number of IO Controllers	
• integrated	2
● Via CM	8; A maximum of 8 CMs/CPs (PROFIBUS, PROFINET, Ethernet) can be inserted in total
Rack	institution in total
Modules per rack, max.	32; CPU + 31 modules
Number of lines, max.	1
PtP CM	
Number of PtP CMs	the number of connectable PtP CMs is only limited by the number of available slots
Time of day	
Clock	
• Type	Hardware clock
Backup time	6 wk; At 40 °C ambient temperature, typically
Deviation per day, max.	10 s; Typ.: 2 s
Operating hours counter	
• Number	16
Clock synchronization	
• supported	Yes
• to DP, master	Yes
• on DP, device	Yes
• in AS, master	Yes
• in AS, device	Yes
• on Ethernet via NTP	Yes
Interfaces	
Number of PROFINET interfaces	2
Number of PROFIBUS interfaces	1
Interface	
Interface types	Voc. V1
RJ 45 (Ethernet) Number of ports	Yes; X1
Number of ports integrated quiteb	2 Voc
• integrated switch	Yes
Protocols	

Yes; IPv4 • IP protocol • PROFINET IO Controller Yes PROFINET IO Device Yes • SIMATIC communication Yes • Open IE communication Yes; Optionally also encrypted Web server Yes Media redundancy Yes **PROFINET IO Controller** Services - Isochronous mode Yes Yes; Requirement: IRT and isochronous mode (MRPD optional) Direct data exchange — IRT Yes - PROFlenergy Yes; per user program - Prioritized startup Yes; Max. 32 PROFINET devices 256; In total, up to 1 000 distributed I/O devices can be connected via AS-i, - Number of connectable IO Devices, max. PROFIBUS or PROFINET - Of which IO devices with IRT, max. - Number of connectable IO Devices for RT, max. 256 - of which in line, max. 256 Number of IO Devices that can be simultaneously 8: in total across all interfaces activated/deactivated, max. 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 - PROFINET Security Class Update time for IRT — for send cycle of 250 µs $250~\mu s$ to 4 ms; Note: In the case of IRT with isochronous mode, the minimum update time of 375 μs of the isochronous OB is decisive — 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 4 ms to 64 ms — 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 Update time for RT 250 µs to 128 ms — for send cycle of 250 μs - 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 **PROFINET IO Device** Services - Isochronous mode Nο -- IRT Yes — PROFlenergy Yes; per user program - Shared device Yes - Number of IO Controllers with shared device, max. - activation/deactivation of I-devices Yes; per user program - Asset management record Yes; per user program - PROFINET Security Class SNMP Configuration and DCP Read Only Interface types • RJ 45 (Ethernet) Yes; X2 Number of ports 1 • integrated switch Nο Protocols • IP protocol Yes: IPv4 • PROFINET IO Controller Yes • PROFINET IO Device Yes Yes • SIMATIC communication • Open IE communication Yes; Optionally also encrypted

Web server Media redundancy No PROFINET IO Controller Services — Isochronous mode — Direct data exchange — No — IRT — PROFlenergy — Prioritized startup — Number of connectable IO Devices, max. — 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 — PROFINET Security Class Update time for RT — for send cycle of 1 ms PROFINET IO Device Services — Isochronous mode — IRT — PROFienergy — Prioritized startup — No No No PROFINET IO Device Services — Isochronous mode — IRT — PROFienergy — Prioritized startup — Shared device — Number of IO Controllers with shared device, max. — activation/deactivation of -fevrices — Asset management record — PROFINET Security Class 1. Wes PROFINET Security Class Services — Services — Isochronous mode — IRT — PROFienergy — Prioritized startup — Shared device — Number of IO Controllers with shared device, max. — activation/deactivation of -fevrices — Asset management record — PROFINET Security Class SNMP Configuration and DCP Read Only 1. Interface Interface Interface Interface Interface PROFIBUS DP master — PROFIBUS DP master — PROFIBUS DP master — PROFIBUS DP device	S-i,
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Protocols • PROFIBUS DP master • PROFIBUS DP device No	
 PROFIBUS DP master PROFIBUS DP device No 	
PROFIBUS DP device No	
- CIMATIC communication	
SIMATIC communication Yes PROCIDES DR moster.	
PROFIBUS DP master	
Number of connections, max. 48; for the integrated PROFIBUS DP interface 107 by the integrated PROFIBUS DP interface	
• max. number of DP devices 125; In total, up to 1 000 distributed I/O devices can be connected via	0.
Services Services	\S-i,
— Equidistance Yes	AS-i,
— Equilistance Tes — Isochronous mode Yes	AS-i,
— activation/deactivation of DP devices Yes	AS-i,
	AS-i,
Interface types	AS-i,
RJ 45 (Ethernet)	AS-i,
• 100 Mbps Yes	AS-i,
• Autonegotiation Yes	AS-i,
• Autocrossing Yes	AS-i,
Industrial Ethernet status LED Yes	AS-i,
RS 485	AS-i,
• Transmission rate, max. 12 Mbit/s	AS-i,
Protocols	AS-i,
PROFIsafe No	AS-i,
Number of connections	AS-i,
• Number of connections, max. 256; via integrated interfaces of the CPU and connected CPs / CMs	AS-i,
Number of connections reserved for ES/HMI/web 10	AS-i,

 Number of connections via integrated interfaces 	128		
Number of S7 routing paths	16		
Redundancy mode			
H-Sync forwarding	Yes		
Media redundancy			
— Media redundancy	only via 1st interface (X1)		
— MRP	Yes; MRP Automanager according to IEC 62439-2 Edition 2.0, MRP Manager;		
MDD interconnection ourserted	MRP Client		
MRP interconnection, supported	Yes; as MRP ring node according to IEC 62439-2 Edition 3.0		
— MRPD	Yes; Requirement: IRT		
Switchover time on line break, typ.	200 ms; For MRP, bumpless for MRPD		
— Number of stations in the ring, max.	50		
SIMATIC communication	V		
PG/OP communication	Yes; encryption with TLS V1.3 pre-selected		
• S7 routing	Yes		
Data record routing	Yes		
S7 communication, as server	Yes		
S7 communication, as client	Yes		
User data per job, max.	See online help (S7 communication, user data size)		
Open IE communication			
• TCP/IP	Yes		
— Data length, max.	64 kbyte		
 several passive connections per port, supported 	Yes		
• ISO-on-TCP (RFC1006)	Yes		
— Data length, max.	64 kbyte		
• UDP	Yes		
— Data length, max.	2 kbyte; 1 472 bytes for UDP broadcast		
— UDP multicast	Yes; Max. 5 multicast circuits		
• DHCP	Yes		
• DNS	Yes		
• SNMP	Yes		
• DCP	Yes		
• LLDP	Yes		
Encryption	Yes; Optional		
Web server			
• HTTP	Yes; Standard and user pages		
• HTTPS	Yes; Standard and user pages		
• web API			
 Number of sessions, max. 	200		
— number of simultaneous HTTP calls, max.	4		
— HTTP request body, max.	131 072 byte		
OPC UA	10.0123,0		
Runtime license required	Yes; "Medium" license required		
OPC UA Client	Yes; Data Access (registered Read/Write), Method Call		
Application authentication	Yes		
Security policies	Available security policies: None, Basic128Rsa15, Basic256Rsa15,		
— occurry pondice	Basic256Sha256		
— User authentication	"anonymous" or by user name & password		
Number of connections, max.	10		
 Number of nodes of the client interfaces, recommended max. 	2 000		
 Number of elements for one call of OPC_UA_NodeGetHandleList/OPC_UA_ReadList/OPC_ 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, Alarms & Condition (A&C), Custom Address Space
 Application authentication 	Yes
— Security policies	available security policies: None, Basic128Rsa15, Basic256Rsa15, Basic256Sha256, Aes128Sha256RsaOaep, Aes256Sha256RsaPss
 User authentication 	"anonymous" or by user name & password
 — GDS support (certificate management) 	Yes
Number of sessions, max.	48
 Number of accessible variables, max. 	100 000
 Number of registerable nodes, max. 	20 000
 Number of subscriptions per session, max. 	50
— Sampling interval, min.	100 ms
— Publishing interval, min.	100 ms
 Number of server methods, max. 	50
 Number of inputs/outputs per server method, max. 	20
Number of monitored items, recommended max.	4 000; for 1 s sampling interval and 1 s send interval
— Number of server interfaces, max.	10 of each "Server interfaces" / "Companion specification" type and 20 of the type "Reference namespace"
 Number of nodes for user-defined server interfaces, 	30 000
max.	
 Alarms and Conditions 	Yes
 Number of program alarms 	200
Number of alarms for system diagnostics	100
Further protocols	
MODBUS	Yes; MODBUS TCP
Isochronous mode	
Equidistance	Yes
S7 message functions	
Number of login stations for message functions, max.	64
number of subscriptions, max.	500
	500 8 000
number of subscriptions, max.	
number of subscriptions, max. number of tags/attributes for subscriptions, max.	8 000
number of subscriptions, max. number of tags/attributes for subscriptions, max. Program alarms	8 000 Yes 10 000; Program messages are generated by the "Program_Alarm" block,
number of subscriptions, max. number of tags/attributes for subscriptions, max. Program alarms Number of configurable program messages, max.	8 000 Yes 10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH
number of subscriptions, max. number of tags/attributes for subscriptions, max. Program alarms Number of configurable program messages, max. Number of loadable program messages in RUN, max.	8 000 Yes 10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH
number of subscriptions, max. number of tags/attributes for subscriptions, max. Program alarms Number of configurable program messages, max. Number of loadable program messages in RUN, max. Number of simultaneously active program alarms	8 000 Yes 10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH 10 000
number of subscriptions, max. number of tags/attributes for subscriptions, max. Program alarms Number of configurable program messages, max. Number of loadable program messages in RUN, max. Number of simultaneously active program alarms • Number of program alarms	8 000 Yes 10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH 10 000
number of subscriptions, max. number of tags/attributes for subscriptions, max. Program alarms Number of configurable program messages, max. Number of loadable program messages in RUN, max. Number of simultaneously active program alarms • Number of program alarms • Number of alarms for system diagnostics	8 000 Yes 10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH 10 000 1 000 200
number of subscriptions, max. number of tags/attributes for subscriptions, max. Program alarms Number of configurable program messages, max. Number of loadable program messages in RUN, max. Number of simultaneously active program alarms • Number of program alarms • Number of alarms for system diagnostics • Number of alarms for motion technology objects	8 000 Yes 10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH 10 000 1 000 200
number of subscriptions, max. number of tags/attributes for subscriptions, max. Program alarms Number of configurable program messages, max. Number of loadable program messages in RUN, max. Number of simultaneously active program alarms • Number of program alarms • Number of alarms for system diagnostics • Number of alarms for motion technology objects Test commissioning functions	8 000 Yes 10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH 10 000 1 000 200 480
number of subscriptions, max. number of tags/attributes for subscriptions, max. Program alarms Number of configurable program messages, max. Number of loadable program messages in RUN, max. Number of simultaneously active program alarms • Number of program alarms • Number of alarms for system diagnostics • Number of alarms for motion technology objects Test commissioning functions Joint commission (Team Engineering)	8 000 Yes 10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH 10 000 1 000 200 480 Yes; Parallel online access possible for up to 8 engineering systems
number of subscriptions, max. number of tags/attributes for subscriptions, max. Program alarms Number of configurable program messages, max. Number of loadable program messages in RUN, max. Number of simultaneously active program alarms • Number of program alarms • Number of alarms for system diagnostics • Number of alarms for motion technology objects Test commissioning functions Joint commission (Team Engineering) Status block	8 000 Yes 10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH 10 000 1 000 200 480 Yes; Parallel online access possible for up to 8 engineering systems Yes; Up to 8 simultaneously (in total across all ES clients)
number of subscriptions, max. number of tags/attributes for subscriptions, max. Program alarms Number of configurable program messages, max. Number of loadable program messages in RUN, max. Number of simultaneously active program alarms • Number of program alarms • Number of alarms for system diagnostics • Number of alarms for motion technology objects Test commissioning functions Joint commission (Team Engineering) Status block Single step	8 000 Yes 10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH 10 000 1 000 200 480 Yes; Parallel online access possible for up to 8 engineering systems Yes; Up to 8 simultaneously (in total across all ES clients) No
number of subscriptions, max. number of tags/attributes for subscriptions, max. Program alarms Number of configurable program messages, max. Number of loadable program messages in RUN, max. Number of simultaneously active program alarms • Number of program alarms • Number of alarms for system diagnostics • Number of alarms for motion technology objects Test commissioning functions Joint commission (Team Engineering) Status block Single step Number of breakpoints	8 000 Yes 10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH 10 000 1 000 200 480 Yes; Parallel online access possible for up to 8 engineering systems Yes; Up to 8 simultaneously (in total across all ES clients) No 8
number of subscriptions, max. number of tags/attributes for subscriptions, max. Program alarms Number of configurable program messages, max. Number of loadable program messages in RUN, max. Number of simultaneously active program alarms Number of program alarms Number of alarms for system diagnostics Number of alarms for motion technology objects Test commissioning functions Joint commission (Team Engineering) Status block Single step Number of breakpoints Profiling	8 000 Yes 10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH 10 000 1 000 200 480 Yes; Parallel online access possible for up to 8 engineering systems Yes; Up to 8 simultaneously (in total across all ES clients) No 8
number of subscriptions, max. number of tags/attributes for subscriptions, max. Program alarms Number of configurable program messages, max. Number of loadable program messages in RUN, max. Number of simultaneously active program alarms Number of program alarms Number of alarms for system diagnostics Number of alarms for motion technology objects Test commissioning functions Joint commission (Team Engineering) Status block Single step Number of breakpoints Profiling Status/control	8 000 Yes 10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH 10 000 1 000 200 480 Yes; Parallel online access possible for up to 8 engineering systems Yes; Up to 8 simultaneously (in total across all ES clients) No 8 No
number of subscriptions, max. number of tags/attributes for subscriptions, max. Program alarms Number of configurable program messages, max. Number of loadable program messages in RUN, max. Number of simultaneously active program alarms Number of program alarms Number of alarms for system diagnostics Number of alarms for motion technology objects Test commissioning functions Joint commission (Team Engineering) Status block Single step Number of breakpoints Profiling Status/control Status/control variable	8 000 Yes 10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH 10 000 1 000 200 480 Yes; Parallel online access possible for up to 8 engineering systems Yes; Up to 8 simultaneously (in total across all ES clients) No 8 No Yes
number of subscriptions, max. number of tags/attributes for subscriptions, max. Program alarms Number of configurable program messages, max. Number of loadable program messages in RUN, max. Number of simultaneously active program alarms • Number of program alarms • Number of alarms for system diagnostics • Number of alarms for motion technology objects Test commissioning functions Joint commission (Team Engineering) Status block Single step Number of breakpoints Profiling Status/control • Status/control variable • Variables	8 000 Yes 10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH 10 000 1 000 200 480 Yes; Parallel online access possible for up to 8 engineering systems Yes; Up to 8 simultaneously (in total across all ES clients) No 8 No Yes
number of subscriptions, max. number of tags/attributes for subscriptions, max. Program alarms Number of configurable program messages, max. Number of loadable program messages in RUN, max. Number of simultaneously active program alarms • Number of program alarms • Number of alarms for system diagnostics • Number of alarms for motion technology objects Test commissioning functions Joint commission (Team Engineering) Status block Single step Number of breakpoints Profiling Status/control • Status/control variable • Variables • Number of variables, max.	Yes 10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH 10 000 1 000 200 480 Yes; Parallel online access possible for up to 8 engineering systems Yes; Up to 8 simultaneously (in total across all ES clients) No 8 No Yes Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
number of subscriptions, max. number of tags/attributes for subscriptions, max. Program alarms Number of configurable program messages, max. Number of loadable program messages in RUN, max. Number of simultaneously active program alarms • Number of program alarms • Number of alarms for system diagnostics • Number of alarms for motion technology objects Test commissioning functions Joint commission (Team Engineering) Status block Single step Number of breakpoints Profiling Status/control • Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max.	Yes 10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH 10 000 1 000 200 480 Yes; Parallel online access possible for up to 8 engineering systems Yes; Up to 8 simultaneously (in total across all ES clients) No 8 No Yes Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters 200; per job
number of subscriptions, max. number of tags/attributes for subscriptions, max. Program alarms Number of configurable program messages, max. Number of loadable program messages in RUN, max. Number of simultaneously active program alarms • Number of program alarms • Number of alarms for system diagnostics • Number of alarms for motion technology objects Test commissioning functions Joint commission (Team Engineering) Status block Single step Number of breakpoints Profiling Status/control • Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing	Yes 10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH 10 000 1 000 200 480 Yes; Parallel online access possible for up to 8 engineering systems Yes; Up to 8 simultaneously (in total across all ES clients) No 8 No Yes Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters 200; per job
number of subscriptions, max. number of tags/attributes for subscriptions, max. Program alarms Number of configurable program messages, max. Number of loadable program messages in RUN, max. Number of simultaneously active program alarms • Number of program alarms • Number of alarms for system diagnostics • Number of alarms for motion technology objects Test commissioning functions Joint commission (Team Engineering) Status block Single step Number of breakpoints Profiling Status/control • Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. Forcing • Forcing	8 000 Yes 10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH 10 000 1 000 200 480 Yes; Parallel online access possible for up to 8 engineering systems Yes; Up to 8 simultaneously (in total across all ES clients) No 8 No Yes Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters 200; per job 200; per job
number of subscriptions, max. number of tags/attributes for subscriptions, max. Program alarms Number of configurable program messages, max. Number of loadable program messages in RUN, max. Number of simultaneously active program alarms • Number of program alarms • Number of alarms for system diagnostics • Number of alarms for motion technology objects Test commissioning functions Joint commission (Team Engineering) Status block Single step Number of breakpoints Profiling Status/control • Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing • Forcing, variables	8 000 Yes 10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH 10 000 1 000 200 480 Yes; Parallel online access possible for up to 8 engineering systems Yes; Up to 8 simultaneously (in total across all ES clients) No 8 No Yes Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters 200; per job 200; per job Yes Peripheral inputs/outputs
number of subscriptions, max. number of tags/attributes for subscriptions, max. Program alarms Number of configurable program messages, max. Number of loadable program messages in RUN, max. Number of simultaneously active program alarms • Number of program alarms • Number of alarms for system diagnostics • Number of alarms for motion technology objects Test commissioning functions Joint commission (Team Engineering) Status block Single step Number of breakpoints Profiling Status/control • Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. Forcing • Forcing • Forcing • Forcing, variables, max. • Number of variables, max.	8 000 Yes 10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH 10 000 1 000 200 480 Yes; Parallel online access possible for up to 8 engineering systems Yes; Up to 8 simultaneously (in total across all ES clients) No 8 No Yes Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters 200; per job 200; per job
number of subscriptions, max. number of tags/attributes for subscriptions, max. Program alarms Number of configurable program messages, max. Number of loadable program messages in RUN, max. Number of simultaneously active program alarms • Number of program alarms • Number of alarms for system diagnostics • Number of alarms for motion technology objects Test commissioning functions Joint commission (Team Engineering) Status block Single step Number of breakpoints Profiling Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing • Forcing, variables • Number of variables, max. Diagnostic buffer	8 000 Yes 10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH 10 000 1 000 200 480 Yes; Parallel online access possible for up to 8 engineering systems Yes; Up to 8 simultaneously (in total across all ES clients) No 8 No Yes Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters 200; per job 200; per job Yes Peripheral inputs/outputs 200
number of subscriptions, max. number of tags/attributes for subscriptions, max. Program alarms Number of configurable program messages, max. Number of loadable program messages in RUN, max. Number of simultaneously active program alarms Number of program alarms Number of alarms for system diagnostics Number of alarms for motion technology objects Test commissioning functions Joint commission (Team Engineering) Status block Single step Number of breakpoints Profiling Status/control Status/control variable Variables Number of variables, max. of which status variables, max. Forcing Forcing Forcing Forcing, variables Number of variables, max. Diagnostic buffer present	8 000 Yes 10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH 10 000 1 000 200 480 Yes; Parallel online access possible for up to 8 engineering systems Yes; Up to 8 simultaneously (in total across all ES clients) No 8 No Yes Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters 200; per job 200; per job Yes Peripheral inputs/outputs 200 Yes
number of subscriptions, max. number of tags/attributes for subscriptions, max. Program alarms Number of configurable program messages, max. Number of loadable program messages in RUN, max. Number of simultaneously active program alarms • Number of program alarms • Number of alarms for system diagnostics • Number of alarms for motion technology objects Test commissioning functions Joint commission (Team Engineering) Status block Single step Number of breakpoints Profiling Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing • Forcing, variables • Number of variables, max. Diagnostic buffer	8 000 Yes 10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH 10 000 1 000 200 480 Yes; Parallel online access possible for up to 8 engineering systems Yes; Up to 8 simultaneously (in total across all ES clients) No 8 No Yes Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters 200; per job 200; per job Yes Peripheral inputs/outputs 200

Traces	
Number of configurable Traces	4 E42 librate
Memory size per trace, max.	512 kbyte
Interrupts/diagnostics/status information	
Diagnostics indication LED	
RUN/STOP LED	Yes
• ERROR LED	Yes
MAINT LED	Yes
Connection display LINK TX/RX	Yes
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
 Number of available Motion Control resources for technology objects 	6 400
 Required Motion Control resources 	
— per speed-controlled axis	40
per positioning axis	80
— per synchronous axis	160
— per external encoder	80
— per output cam	20
— per cam track	160
— per probe	40
 Number of available Extended Motion Control resources for technology objects 	192
 Required Extended Motion Control resources 	
per cam (1 000 points and 50 segments)	2
per cam (10 000 points and 50 segments)	20
— for each set of kinematics	30
— per Interpreter	60
 Per leading axis proxy 	3
 kinematics functions 	
 kinematics with up to 4 interpolating axes 	Yes; max. 3D + orientation
 kinematics with 5 or more interpolating axes 	No
 user-defined kinematics 	Yes
— SIMATIC Safe Kinematics	No
Positioning axis	
 Number of positioning axes at motion control cycle of 4 ms (typical value) 	55
 Number of positioning axes at motion control cycle of 8 ms (typical value) 	80
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
Standards, approvals, certificates	
Ecological footprint	
environmental product declaration	Yes
Global warming potential	
— global warming potential, (total) [CO2 eq]	570 kg
— global warming potential, (during production) [CO2 eq]	96.9 kg
— global warming potential, (during operation) [CO2 eq]	483 kg
— global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions	-9.97 kg
Ambient conditions	
Ambient temperature during operation	0.90
horizontal installation, min.	0 °C
horizontal installation, max. vortical installation, min.	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off
 vertical installation, min. 	0 °C

vertical installation, max.	40 °C; Display: 40 °C, at an oped display is switched off	40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off			
Ambient temperature during storage/transportation					
• min.	-40 °C	-40 °C			
• max.	70 °C	70 °C			
Altitude during operation relating to sea level					
 Installation altitude above sea level, max. 	5 000 m; Restrictions for installa	ation altitudes > 2 000 m	, see manual		
configuration / header					
configuration / programming / header					
Programming language					
— LAD	Yes				
— FBD	Yes	Yes			
— STL	Yes				
— SCL	Yes				
— CFC	Yes				
— GRAPH	Yes				
Know-how protection					
 User program protection/password protection 	Yes				
 Copy protection 	Yes				
Block protection	Yes				
Access protection					
 protection of confidential configuration data 	Yes				
 Password for display 	Yes				
 Protection level: Write protection 	Yes				
 Protection level: Read/write protection 	Yes				
 Protection level: Write protection for Failsafe 	No				
Protection level: Complete protection	Yes				
User administration	Yes; device-wide				
programming / cycle time monitoring / header					
• lower limit	adjustable minimum cycle time	adjustable minimum cycle time			
upper limit	adjustable maximum cycle time				
Dimensions					
Width	175 mm				
Height	147 mm				
Depth	129 mm				
Veights					
Weight, approx.	1 929 g				
Classifications					
		Version	Classification		
	eClass	14	27-24-22-07		
	eClass	12	27-24-22-07		
	eClass	9.1	27-24-22-07		
	eClass	9	27-24-22-07		
	eClass	8	27-24-22-07		
	eClass	7.1	27-24-22-07		
	eClass	6	27-24-22-07		
	ETIM	9	EC000236		
	ETIM	8	EC000236		
	ETIM	7	EC000236		

Approvals / Certificates

General Product Approval









IDEA

UNSPSC

<u>KC</u>

4

15



3565

32-15-17-05

EMV

Functional Saftey

Test Certificates

Marine / Shipping



Type Examination Certificate

Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping

other







Confirmation

Miscellaneous

Confirmation

other

Railway

Environment

Miscellaneous

Special Test Certificate



Siemens EcoTech



Environmental Confirmations

last modified:

12/8/2024

