Data sheet

SIMATIC S7-400, CPU 416-2, Central processing unit with: Work memory 8 MB, (4 MB code, 4 MB data), 1st interface MPI/DP 12 Mbit/s, 2nd interface PROFIBUS DP,



General information	
Product type designation	CPU 416-2
HW functional status	01
Firmware version	V7.0
Product function	
• Isochronous mode	Yes; For PROFIBUS only
Engineering with	
Programming package	STEP 7 V5.4 or higher with HSP 261
CiR - Configuration in RUN	
CiR synchronization time, basic load	100 ms
CiR synchronization time, time per I/O byte	10 µs
Supply voltage	
Rated value (DC)	
• 24 V DC	No; Power supply via system power supply
Input current	
from backplane bus 5 V DC, typ.	0.9 A
from backplane bus 5 V DC, max.	1.1 A
from backplane bus 24 V DC, max.	300 mA; 150 mA per DP interface

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from interface 5 V DC, max.	90 mA; At each DP interface
Power loss	
Power loss, typ.	4.5 W
Power loss, max.	5.5 W
Memory	
Type of memory	RAM
Work memory	
• integrated	8 Mbyte
• integrated (for program)	4 Mbyte
• integrated (for data)	4 Mbyte
• expandable	No
Load memory	
expandable FEPROM	Yes; with Memory Card (FLASH)
• expandable FEPROM, max.	64 Mbyte
• integrated RAM, max.	1 Mbyte
expandable RAM	Yes; with Memory Card (RAM)
• expandable RAM, max.	64 Mbyte
Backup	
• present	Yes
• with battery	Yes; all data
• without battery	No
Battery	
Backup battery	
Backup current, typ.	180 μA; up to 40 °C
Backup current, max.	850 μA
Backup time, max.	Dealt with in the module data manual with the secondary conditions and the factors of influence
 Feeding of external backup voltage to CPU 	5 V DC to 15 V DC
CPU processing times	
for bit operations, typ.	12.5 ns
for word operations, typ.	12.5 ns
for fixed point arithmetic, typ.	12.5 ns
for floating point arithmetic, typ.	25 ns
CPU-blocks	
DB	
Number, max.	10 000; Number range: 1 to 16000
• Size, max.	64 kbyte
FB	
Number, max.	5 000; Number range: 0 to 7999
● Size, max.	64 kbyte



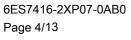
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FC	5 000 Nearly 22 22 0 to 7000
Number, max.	5 000; Number range: 0 to 7999
• Size, max.	64 kbyte
ОВ	
Number, max.	see instruction list
• Size, max.	64 kbyte
 Number of free cycle OBs 	1; OB 1
 Number of time alarm OBs 	8; OB 10-17
 Number of delay alarm OBs 	4; OB 20-23
 Number of cyclic interrupt OBs 	9; OB 30-38 (shortest cycle that can be set = 500 μs)
 Number of process alarm OBs 	8; OB 40-47
 Number of DPV1 alarm OBs 	3; OB 55-57
 Number of isochronous mode OBs 	4; OB 61-64
 Number of multicomputing OBs 	1; OB 60
 Number of background OBs 	1; OB 90
 Number of startup OBs 	3; OB 100-102
 Number of asynchronous error OBs 	9; OB 80-88
 Number of synchronous error OBs 	2; OB 121, 122
Nesting depth	
per priority class	24
 additional within an error OB 	2

Counters, timers and their retentivity	
S7 counter	
Number	2 048
Retentivity	
— adjustable	Yes
— lower limit	0
— upper limit	2 047
— preset	Z 0 to Z 7
Counting range	
— lower limit	0
— upper limit	999
IEC counter	
• present	Yes
● Type	SFB
Number	Unlimited (limited only by RAM capacity)
S7 times	
• Number	2 048
Retentivity	
— adjustable	Yes
— lower limit	0



— upper limit	2 047
— preset	No times retentive
Time range	
— lower limit	10 ms
— upper limit	9 990 s
IEC timer	
• present	Yes
• Type	SFB
• Number	Unlimited (limited only by RAM capacity)
Data areas and their retentivity	
retentive data area in total	Total working and load memory (with backup battery)
Flag	
• Number, max.	16 kbyte; Size of bit memory address area
Retentivity available	Yes
Retentivity preset	MB 0 to MB 15
 Number of clock memories 	8; in 1 memory byte
Local data	
• adjustable, max.	32 kbyte
• preset	16 kbyte
Address area	
I/O address area	
• Inputs	16 kbyte
Outputs	16 kbyte
Process image	
Inputs, adjustable	16 kbyte
 Outputs, adjustable 	16 kbyte
Inputs, default	512 byte
Outputs, default	512 byte
• consistent data, max.	244 byte
 Access to consistent data in process image 	Yes
Subprocess images	
Number of subprocess images, max.	15
Digital channels	
• Inputs	131 072
— of which central	131 072
Outputs	131 072



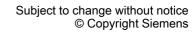
Analog channels

• Inputs

Outputs

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131 072

8 192

8 192

8 192

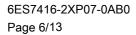
— of which central	8 192
Hardware configuration	
Number of expansion units, max.	21
connectable OPs	95
Multicomputing	Yes; 4 CPUs max. (with UR1 or UR2)
Interface modules	
 Number of connectable IMs (total), max. 	6
 Number of connectable IM 460s, max. 	6
 Number of connectable IM 463s, max. 	4; IM 463-2
Number of DP masters	
• integrated	2
• via CP	10; CP 443-5 Extended
● via IM 467	4
 Mixed mode IM + CP permitted 	No; IM 467 cannot be used jointly with CP 443-5 Ext. or CP 443-1 in PROFINET IO mode
• via interface module	0
 Number of pluggable S5 modules (via adapter capsule in central device), max. 	6
Number of IO Controllers	
• integrated	0
• via CP	4; Max. 4 in the central controller; no mixed operation of different CP 443-1 types in PROFINET IO mode

Number of operable FMs and CPs (recommended)	
• FM	Limited by number of slots and number of connections
● CP, PtP	CP 440: Limited by number of slots; CP 441: limited by number of connections
PROFIBUS and Ethernet CPs	14; In total max. 10 CPs as DP master and PROFINET controller, of which up to 10 IMs or CPs as DP master and up to 4 CPs as PROFINET controller
Slots	
• required slots	1

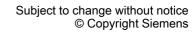
• required slots	1
Time of day	
Clock	
Hardware clock (real-time)	Yes
 retentive and synchronizable 	Yes
Resolution	1 ms
 Deviation per day (buffered), max. 	1.7 s; Power off
 Deviation per day (unbuffered), max. 	8.6 s; For power On
Operating hours counter	
Number	16
 Number/Number range 	0 to 15
Range of values	SFCs 2, 3 and 4: 0 to 32767 hours SFC 101: 0 to 2^31 - 1 hours



Granularity	1 h
• retentive	Yes
Clock synchronization	
supported	Yes
● to MPI, master	Yes
● to MPI, slave	Yes
• to DP, master	Yes
• to DP, slave	Yes
• in AS, master	Yes
• in AS, slave	Yes
● on Ethernet via NTP	No; Via CP
● to IF 964 DP	No
Time difference in system when synchronizing via	
● MPI, max.	200 ms
Interfaces	
Interfaces/bus type	1 x MPI/PROFIBUS DP, 1 x PROFIBUS DP
Number of RS 485 interfaces	2; Combined MPI / PROFIBUS DP and PROFIBUS DP
1. Interface	
Interface type	Integrated
Physics	RS 485 / PROFIBUS + MPI Yes
Power supply to interface (15 to 30 V DC), max.	150 mA
Protocols	130 IIIA
• MPI	Yes
PROFIBUS DP master	Yes
PROFIBUS DP slave	Yes
MPI	165
Number of connections	44; If a diagnostics repeater is used on the line, the number of
• Number of Connections	connection resources on the line is reduced by 1
Transmission rate, max.	12 Mbit/s
Services	
— PG/OP communication	Yes
— Routing	Yes
Global data communication	Yes
— S7 basic communication	Yes
— S7 communication	Yes
— S7 communication, as client	Yes
— S7 communication, as server	Yes
PROFIBUS DP master	
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• Number of connections, max.



32; If a diagnostics repeater is used on the line, the number of

connection resources on the line is reduced by 1

• Transmission rate, max.	12 Mbit/s
 Number of DP slaves, max. 	32
Services	
— PG/OP communication	Yes
— Routing	Yes; S7 routing
 Global data communication 	No
 S7 basic communication 	Yes
— S7 communication	Yes
— S7 communication, as client	Yes
— S7 communication, as server	Yes
— Equidistance	Yes
— Isochronous mode	Yes
— SYNC/FREEZE	Yes
 Activation/deactivation of DP slaves 	Yes
 Direct data exchange (slave-to-slave communication) 	Yes
— DPV1	Yes
Address area	
— Inputs, max.	2 kbyte
— Outputs, max.	2 kbyte
User data per DP slave	
— User data per DP slave, max.	244 byte
— Inputs, max.	244 byte
— Outputs, max.	244 byte
— Slots, max.	244
— per slot, max.	128 byte
PROFIBUS DP slave	
Number of connections	32
• GSD file	http://support.automation.siemens.com/WW/view/en/113652
• Transmission rate, max.	12 Mbit/s
automatic baud rate search	No
Address area, max.	32; Virtual slots
 User data per address area, max. 	32 byte
— of which consistent, max.	32 byte
Services	
— PG/OP communication	Yes; with interface active
— Routing	Yes; with interface active
 Global data communication 	No
— S7 basic communication	No
— S7 communication	Yes
 S7 communication, as client 	Yes

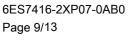


 — S7 communication, as server 	Yes
 Direct data exchange (slave-to-slave communication) 	No
— DPV1	No
Transfer memory	
— Inputs	244 byte
— Outputs	244 byte

Interface type
Physics RS 485 / PROFIBUS Isolated Yes Power supply to interface (15 to 30 V DC), max. 150 mA Number of connection resources 32 Protocols PROFIBUS DP master Yes PROFIBUS DP slave Yes PROFIBUS DP master Number of connections, max. 32 Transmission rate, max. 12 Mbit/s Number of DP slaves, max. 125 Services PG/OP communication Yes Routing Yes; \$7 routing Global data communication Yes S7 basic communication Yes S7 communication Yes S7 communication, as client Yes S7 communication, as server Yes Equidistance Yes Isochronous mode Yes SYNC/FREEZE Yes
Power supply to interface (15 to 30 V DC), max. Number of connection resources Protocols PROFIBUS DP master PROFIBUS DP slave PROFIBUS DP master Number of connections, max. Transmission rate, max. Number of DP slaves, max. PG/OP communication PG/OP communication PS7 basic communication PS7 communication PS7 communication PS7 communication, as client PS7 communication, as server PEquidistance PSYNC/FREEZE Protocols 150 mA 120 max. 120 max. 120 max. 121 max. 122 max. 123 max. 125
Number of connection resources Protocols PROFIBUS DP master PROFIBUS DP slave PROFIBUS DP master Number of connections, max. Transmission rate, max. Number of DP slaves, max. Tensmission rate, max. Services PG/OP communication Routing Global data communication S7 basic communication S7 communication S7 communication S7 communication S7 communication S7 communication, as client S7 communication, as server S7 communication S7 communication S8 communication S9
Protocols PROFIBUS DP master PROFIBUS DP slave PROFIBUS DP master Number of connections, max. Transmission rate, max. In the slave services PROFOP communication Protop Commun
 PROFIBUS DP master PROFIBUS DP slave PROFIBUS DP master Number of connections, max. 12 Mbit/s Number of DP slaves, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication, as client — S7 communication, as server — Equidistance — Isochronous mode — SYNC/FREEZE Yes
 PROFIBUS DP slave PROFIBUS DP master Number of connections, max. 12 Mbit/s Number of DP slaves, max. Number of DP slaves, max. PG/OP communication Routing Global data communication S7 basic communication S7 communication Yes S7 communication Yes S7 communication Yes S7 communication, as client S7 communication, as server S7 communication, as server S9 communication, as server Yes S9 communication Yes S9 communication Yes S9 communication Yes Yes S9 communication Yes Yes SYNC/FREEZE Yes
PROFIBUS DP master • Number of connections, max. • Transmission rate, max. • Number of DP slaves, max. 125 Services - PG/OP communication - Routing - Global data communication - S7 basic communication - S7 communication - Yes - S7 communication - Yes - S7 communication - Yes - Equidistance - Yes - Equidistance - Yes - SYNC/FREEZE - Yes
 Number of connections, max. Transmission rate, max. Number of DP slaves, max. Number of DP slaves, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication — S7 communication, as client — S7 communication, as server — Equidistance — Isochronous mode — SYNC/FREEZE Yes
 Transmission rate, max. Number of DP slaves, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication — S7 communication, as client — S7 communication, as server — S7 communication, as server — S9 communication, as server — Equidistance — Isochronous mode — SYNC/FREEZE Yes
 Number of DP slaves, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication — S7 communication, as client — S7 communication, as server — S7 communication, as server — Equidistance — Isochronous mode — SYNC/FREEZE Yes
Services - PG/OP communication Yes - Routing Yes; S7 routing - Global data communication No - S7 basic communication Yes - S7 communication Yes - S7 communication Yes - S7 communication, as client Yes - S7 communication, as server Yes - Equidistance Yes - Isochronous mode Yes - SYNC/FREEZE Yes
 — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication — S7 communication, as client — S7 communication, as server — S7 communication, as server — Equidistance — Isochronous mode — SYNC/FREEZE Yes
 Routing Global data communication S7 basic communication Yes S7 communication Yes S7 communication, as client S7 communication, as server Equidistance Isochronous mode SYNC/FREEZE Yes; S7 routing No Yes
 Global data communication S7 basic communication S7 communication S7 communication S7 communication, as client S7 communication, as server Equidistance Isochronous mode SYNC/FREEZE No Yes Yes Yes Yes Yes Yes Yes Yes Yes
 — S7 basic communication — S7 communication — S7 communication, as client — S7 communication, as server — S7 communication, as server — Equidistance — Isochronous mode — SYNC/FREEZE Yes Yes Yes Yes Yes Yes Yes
 S7 communication S7 communication, as client S7 communication, as server S7 communication, as server Equidistance Isochronous mode SYNC/FREEZE Yes Yes Yes Yes Yes Yes
 S7 communication, as client S7 communication, as server Equidistance Isochronous mode SYNC/FREEZE Yes Yes Yes Yes Yes
 — S7 communication, as server — Equidistance — Isochronous mode — SYNC/FREEZE Yes Yes Yes Yes
 Equidistance Isochronous mode SYNC/FREEZE Yes Yes Yes
 — Isochronous mode — SYNC/FREEZE Yes
— SYNC/FREEZE Yes
— Activation/deactivation of DP slaves Yes
Additation/additivation of Di Sidves
— Direct data exchange (slave-to-slave Yes communication)
— DPV1 Yes
Address area
— Inputs, max. 8 kbyte
— Outputs, max. 8 kbyte
User data per DP slave
— User data per DP slave, max. 244 byte
— Inputs, max. 244 byte

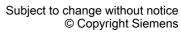


— Outputs, max.	244 byte
— Slots, max.	244
— per slot, max.	128 byte
PROFIBUS DP slave	
Number of connections	32
• GSD file	http://support.automation.siemens.com/WW/view/en/113652
• Transmission rate, max.	12 Mbit/s
 Address area, max. 	32
 User data per address area, max. 	32 byte
— of which consistent, max.	32 byte
Services	
— Routing	Yes; with interface active
Transfer memory	
— Inputs	244 byte
— Outputs	244 byte
Protocols	
Open IE communication	
• ISO-on-TCP (RFC1006)	Via CP 443-1 and loadable FB
— Data length, max.	1 452 bytes via CP 443-1 Adv.
Web server	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	No
• supported	No
• supported Isochronous mode	
• supported Isochronous mode Equidistance	Yes
• supported Isochronous mode Equidistance Number of DP masters with isochronous mode	Yes 2
• supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max.	Yes 2 244 byte
• supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse	Yes 2 244 byte 1 ms; 0.5 ms without use of SFC 126, 127
• supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max.	Yes 2 244 byte
• supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse	Yes 2 244 byte 1 ms; 0.5 ms without use of SFC 126, 127
• supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse max. cycle	Yes 2 244 byte 1 ms; 0.5 ms without use of SFC 126, 127
• supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse max. cycle Communication functions	Yes 2 244 byte 1 ms; 0.5 ms without use of SFC 126, 127 32 ms
• supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse max. cycle Communication functions PG/OP communication	Yes 2 244 byte 1 ms; 0.5 ms without use of SFC 126, 127 32 ms Yes 95
Supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse max. cycle Communication functions PG/OP communication Number of connectable OPs without message processing Number of connectable OPs with message	Yes 2 244 byte 1 ms; 0.5 ms without use of SFC 126, 127 32 ms Yes
Supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse max. cycle Communication functions PG/OP communication Number of connectable OPs without message processing Number of connectable OPs with message processing	Yes 2 244 byte 1 ms; 0.5 ms without use of SFC 126, 127 32 ms Yes 95 95; When using Alarm_S/SQ and Alarm_D/DQ
Supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse max. cycle Communication functions PG/OP communication Number of connectable OPs without message processing Number of connectable OPs with message processing Data record routing	Yes 2 244 byte 1 ms; 0.5 ms without use of SFC 126, 127 32 ms Yes 95
Supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse max. cycle Communication functions PG/OP communication Number of connectable OPs without message processing Number of connectable OPs with message processing Data record routing Global data communication	Yes 2 244 byte 1 ms; 0.5 ms without use of SFC 126, 127 32 ms Yes 95 95; When using Alarm_S/SQ and Alarm_D/DQ Yes
● supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse max. cycle Communication functions PG/OP communication ● Number of connectable OPs without message processing ● Number of connectable OPs with message processing Data record routing Global data communication ● supported	Yes 2 244 byte 1 ms; 0.5 ms without use of SFC 126, 127 32 ms Yes 95 95; When using Alarm_S/SQ and Alarm_D/DQ Yes Yes
● supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse max. cycle Communication functions PG/OP communication ● Number of connectable OPs without message processing ● Number of connectable OPs with message processing Data record routing Global data communication ● supported ● Number of GD loops, max.	Yes 2 244 byte 1 ms; 0.5 ms without use of SFC 126, 127 32 ms Yes 95 95; When using Alarm_S/SQ and Alarm_D/DQ Yes Yes 16
● supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse max. cycle Communication functions PG/OP communication ● Number of connectable OPs without message processing ● Number of connectable OPs with message processing Data record routing Global data communication ● supported	Yes 2 244 byte 1 ms; 0.5 ms without use of SFC 126, 127 32 ms Yes 95 95; When using Alarm_S/SQ and Alarm_D/DQ Yes Yes



• Size of GD packets, max.

• Size of GD packet (of which consistent), max.



54 byte

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1 variable

S7 basic communication	
• supported	Yes
User data per job, max.	76 byte
 User data per job (of which consistent), max. 	1 variable
S7 communication	
• supported	Yes
• as server	Yes
• as client	Yes
• User data per job, max.	64 kbyte
• User data per job (of which consistent), max.	462 byte; 1 variable
S5 compatible communication	
• supported	Yes; Via FC AG_SEND and AG_RECV, max. via 10 CP 443-1 or 443-5
 User data per job, max. 	8 kbyte
• User data per job (of which consistent), max.	240 byte
 Number of simultaneous AG-SEND/AG-RECV orders per CPU, max. 	64/64
Standard communication (FMS)	
• supported	Yes; Via CP and loadable FB
Number of connections	
• overall	96
 usable for PG communication 	95
 reserved for PG communication 	1
— adjustable for PG communication, max.	0
 usable for OP communication 	95
 reserved for OP communication 	1
 adjustable for OP communication, max. 	0
 usable for S7 basic communication 	94
 reserved for S7 basic communication 	0
 adjustable for S7 basic communication, max. 	0
• usable for S7 communication	94
 reserved for S7 communication 	0
 adjustable for S7 communication, max. 	0
usable for routing	47
 reserved for routing 	0
— adjustable for routing, max.	0
S7 message functions	
Number of login stations for message functions, max.	95; Max. 95 with Alarm_S/SQ and Alarm_D/DQ (OPs); max. 16 with Alarm, Alarm_8, Alarm_8P, Notify and Notify_8 (e.g. WinCC)
Symbol-related messages	Yes





Yes

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SCAN procedure

Program alarms	Yes
Process diagnostic messages	Yes
simultaneously active Alarm-S blocks, max.	1 000; Simultaneously active alarm_S/SQ blocks or alarm_D/DQ blocks
Alarm 8-blocks	Yes
 Number of instances for alarm 8 and S7 communication blocks, max. 	4 000
• preset, max.	600
Process control messages	Yes
Number of archives that can log on simultaneously (SFB 37 AR_SEND)	32
Number of messages	
• overall, max.	1 024
● in 100 ms grid, max.	128
● in 500 ms grid, max.	512
● in 1000 ms grid, max.	1 024
Number of additional values	
• with 100 ms grid, max.	1
with 500, 1000 ms grid, max.	10
Test commissioning functions	Very line to 40 circultaneously
Status block Single step	Yes; Up to 16 simultaneously Yes
Number of breakpoints	16
Status/control	10
Status/control variable	Yes; Up to 16 variable tables
Variables	Inputs/outputs, memory bits, DBs, distributed I/Os, timers,
	counters
Number of variables, max.	70; Status/control
Forcing	
• Forcing	Yes
• Forcing, variables	Inputs, outputs, bit memories, peripheral inputs, peripheral outputs
Number of variables, max.	512
Diagnostic buffer	
• present	Yes
 Number of entries, max. 	3 200
— adjustable	Yes
— preset	120
Service data	
• can be read out	Yes
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes



Yes
Yes
Yes
Yes
Yes
ATEX II 3G Ex nA IIC T4 Gc

Ambient conditions		
Ambient temperature during operation		
• min.	0 °C	
• max.	60 °C	

Configuration	
Configuration software	
• STEP 7	Yes
Programming	
 Command set 	see instruction list
 Nesting levels 	7
 Access to consistent data in process image 	Yes
System functions (SFC)	see instruction list
 System function blocks (SFB) 	see instruction list
Programming language	
— LAD	Yes
— FBD	Yes
— STL	Yes
— SCL	Yes
— CFC	Yes
— GRAPH	Yes
— HiGraph®	Yes
Number of simultaneously active SFCs	
— DPSYC_FR	2; SFC 11; per interface
— D_ACT_DP	8; SFC 12; per interface
— RD_REC	8; SFC 59; per interface
— WR_REC	8; SFC 58; per interface
— WR_PARM	8; SFC 55; per interface
— PARM_MOD	1; SFC 57; per interface
— WR_DPARM	2; SFC 56; per interface
— DPNRM_DG	8; SFC 13; per interface
— RDSYSST	8; SFC 51
— DP_TOPOL	1; SFC 103; per interface
Number of simultaneously active SFBs	



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— RDREC	8; SFB 52; per interface, but not more than 32 across all external interfaces
— WRREC	8; SFB 53; per interface, but not more than 32 across all external interfaces
Know-how protection	
User program protection/password protection	Yes
Block encryption	Yes; With S7 block Privacy
Dimensions	
Width	25 mm
Height	290 mm
Depth	219 mm
Weights	
Weight, approx.	700 g

last modified: 10/09/2020

