SIEMENS

Data sheet

6ES7414-2XL07-0AB0

SIMATIC S7-400, CPU 414-2 Central processing unit with: Work memory 2 MB, (1 MB code, 1 MB data), 1st interface MPI/DP 12 Mbit/s, 2nd interface PROFIBUS DP,



General information	
Product type designation	CPU 414-2
HW functional status	01
Firmware version	V7.0
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	15 μs
	•
Supply voltage	
· · ·	
Supply voltage	No; Power supply via system power supply
Supply voltage Rated value (DC)	
Supply voltage Rated value (DC) • 24 V DC	
Supply voltage Rated value (DC) • 24 V DC Input current	No; Power supply via system power supply
Supply voltage Rated value (DC) • 24 V DC Input current from backplane bus 5 V DC, typ.	No; Power supply via system power supply

Power loss	
Power loss, typ.	4.5 W
Power loss, max.	5.5 W
Memory	
Type of memory	RAM
Work memory	
● integrated	2 Mbyte
 integrated (for program) 	1 Mbyte
 integrated (for data) 	1 Mbyte
• expandable	No
Load memory	
expandable FEPROM	Yes; with Memory Card (FLASH)
 expandable FEPROM, max. 	64 Mbyte
 integrated RAM, max. 	512 kbyte
expandable RAM	Yes; with Memory Card (RAM)
• expandable RAM, max.	64 Mbyte
Backup	
● present	Yes
• with battery	Yes; all data
• without battery	No
D. II	
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
• Dackup time, max.	conditions and the factors of influence
	conditions and the factors of influence
 Feeding of external backup voltage to CPU 	5 V DC to 15 V DC
CPU processing times	5 V DC to 15 V DC
CPU processing times for bit operations, typ.	5 V DC to 15 V DC 18.75 ns
CPU processing times for bit operations, typ. for word operations, typ.	5 V DC to 15 V DC 18.75 ns 18.75 ns
CPU processing times for bit operations, typ. for word operations, typ. for fixed point arithmetic, typ.	5 V DC to 15 V DC 18.75 ns 18.75 ns 18.75 ns
CPU processing times for bit operations, typ. for word operations, typ. for fixed point arithmetic, typ. for floating point arithmetic, typ.	5 V DC to 15 V DC 18.75 ns 18.75 ns
CPU processing times for bit operations, typ. for word operations, typ. for fixed point arithmetic, typ. for floating point arithmetic, typ. CPU-blocks	5 V DC to 15 V DC 18.75 ns 18.75 ns 18.75 ns
CPU processing times for bit operations, typ. for word operations, typ. for fixed point arithmetic, typ. for floating point arithmetic, typ. CPU-blocks DB	5 V DC to 15 V DC 18.75 ns 18.75 ns 18.75 ns 37.5 ns
CPU processing times for bit operations, typ. for word operations, typ. for fixed point arithmetic, typ. for floating point arithmetic, typ. CPU-blocks DB • Number, max.	5 V DC to 15 V DC 18.75 ns 18.75 ns 18.75 ns 37.5 ns 6 000; Number range: 1 to 16000
CPU processing times for bit operations, typ. for word operations, typ. for fixed point arithmetic, typ. for floating point arithmetic, typ. CPU-blocks DB • Number, max. • Size, max.	5 V DC to 15 V DC 18.75 ns 18.75 ns 18.75 ns 37.5 ns
CPU processing times for bit operations, typ. for word operations, typ. for fixed point arithmetic, typ. for floating point arithmetic, typ. CPU-blocks DB • Number, max. • Size, max. FB	5 V DC to 15 V DC 18.75 ns 18.75 ns 18.75 ns 37.5 ns 6 000; Number range: 1 to 16000 64 kbyte
CPU processing times for bit operations, typ. for word operations, typ. for fixed point arithmetic, typ. for floating point arithmetic, typ. CPU-blocks DB • Number, max. • Size, max. FB • Number, max.	5 V DC to 15 V DC 18.75 ns 18.75 ns 18.75 ns 37.5 ns 6 000; Number range: 1 to 16000 64 kbyte 3 000; Number range: 0 to 7999
CPU processing times for bit operations, typ. for word operations, typ. for fixed point arithmetic, typ. for floating point arithmetic, typ. CPU-blocks DB • Number, max. • Size, max. FB • Number, max. • Size, max.	5 V DC to 15 V DC 18.75 ns 18.75 ns 18.75 ns 37.5 ns 6 000; Number range: 1 to 16000 64 kbyte
CPU processing times for bit operations, typ. for word operations, typ. for fixed point arithmetic, typ. for floating point arithmetic, typ. CPU-blocks DB • Number, max. • Size, max. FB • Number, max.	5 V DC to 15 V DC 18.75 ns 18.75 ns 18.75 ns 37.5 ns 6 000; Number range: 1 to 16000 64 kbyte 3 000; Number range: 0 to 7999

 Size, max. 	64 kbyte
OB	
• Number, max.	see instruction list
• Size, max.	64 kbyte
 Number of free cycle OBs 	1; OB 1
 Number of time alarm OBs 	4; OB 10-13
 Number of delay alarm OBs 	4; OB 20-23
 Number of cyclic interrupt OBs 	4; OB 32-35 (shortest cycle that can be set = 500 μ s)
 Number of process alarm OBs 	4; OB 40-43
 Number of DPV1 alarm OBs 	3; OB 55-57
 Number of isochronous mode OBs 	3; OB 61-63
 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 	1
Counters, timers and their retentivity	
S7 counter	
• Number	2 048
Retentivity	
— adjustable	Yes
— lower limit	0
— upper limit	2 047
— upper limit — preset	2 047 Z 0 to Z 7
— preset Counting range	Z 0 to Z 7
 preset Counting range lower limit 	Z 0 to Z 7 0
 preset Counting range lower limit upper limit 	Z 0 to Z 7
 preset Counting range lower limit upper limit IEC counter 	Z 0 to Z 7 0 999
 preset Counting range lower limit upper limit IEC counter present 	Z 0 to Z 7 0 999 Yes
 preset Counting range lower limit upper limit IEC counter present Type 	Z 0 to Z 7 0 999 Yes SFB
 preset Counting range lower limit upper limit IEC counter present Type Number 	Z 0 to Z 7 0 999 Yes
 preset Counting range lower limit upper limit IEC counter present Type Number S7 times	Z 0 to Z 7 0 999 Yes SFB Unlimited (limited only by RAM capacity)
 preset Counting range lower limit upper limit IEC counter present Type Number S7 times Number 	Z 0 to Z 7 0 999 Yes SFB
 preset Counting range lower limit upper limit IEC counter present Type Number S7 times Number Retentivity 	Z 0 to Z 7 0 999 Yes SFB Unlimited (limited only by RAM capacity) 2 048
 preset Counting range lower limit upper limit IEC counter present Type Number S7 times Number Retentivity adjustable 	Z 0 to Z 7 0 999 Yes SFB Unlimited (limited only by RAM capacity) 2 048 Yes
preset Counting range lower limit upper limit IEC counter • present • Type • Number S7 times • Number Retentivity adjustable lower limit	Z 0 to Z 7 0 999 Yes SFB Unlimited (limited only by RAM capacity) 2 048 Yes 0
 preset Counting range lower limit upper limit IEC counter present Type Number S7 times Number Retentivity adjustable 	Z 0 to Z 7 0 999 Yes SFB Unlimited (limited only by RAM capacity) 2 048 Yes

_ .	
Time range	10
— 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.	8 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.	16 kbyte
• preset	8 kbyte
Address area	
I/O address area	
Inputs	8 kbyte
Outputs	8 kbyte
Process image	
 Inputs, adjustable 	8 kbyte
 Outputs, adjustable 	8 kbyte
 Inputs, default 	256 byte
 Outputs, default 	256 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	65 536
— of which central	65 536
Outputs	65 536
— of which central	65 536
Analog channels	
• Inputs	4 096
— of which central	4 096
Outputs	4 096
— of which central	4 096

Hardware configuration	
Number of expansion units, max.	21
connectable OPs	63
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 	6
capsule in central device), max.	
Number of IO Controllers	2
• 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
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
Isolated	Yes
Power supply to interface (15 to 30 V DC), max.	150 mA
Number of connection resources	MPI: 32, DP: 16
Protocols	
• MPI	Yes
PROFIBUS DP master	Yes
PROFIBUS DP slave	Yes
MPI	
Number of connections	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
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	
 Number of connections, max. 	16; 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	Yes
communication)	
— 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	16
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
— S7 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
2. Interface	Integrated
Interface type	
Physics Isolated	RS 485 / PROFIBUS Yes
Power supply to interface (15 to 30 V DC), max.	150 mA
Number of connection resources	16 16
Protocols	10
	Yes
PROFIBUS DP master	Yes
PROFIBUS DP slave PROFIBUS DP master	res
Number of connections, max.	16
	12 Mbit/s
• Transmission rate, max.	
Number of DP slaves, max.	96
Services	Mar
— 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.	6 kbyte
— Outputs, max.	6 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	120 0) (0
Number of connections	16
GSD file	http://support.automation.siemens.com/WW/view/en/113652
	12 Mbit/s
Transmission rate, max.	32
Address area, max.	
• 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.	1452 bytes via CP 443-1 Adv.
Web server	
● supported	No
Isochronous mode	
Isochronous operation (application synchronized up	Yes; For PROFIBUS only
Isochronous operation (application synchronized up to terminal)	
Isochronous operation (application synchronized up to terminal) Equidistance	Yes
Isochronous operation (application synchronized up to terminal) Equidistance Number of DP masters with isochronous mode	Yes 2
Isochronous operation (application synchronized up to terminal) Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max.	Yes 2 244 byte
Isochronous operation (application synchronized up to terminal) 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
Isochronous operation (application synchronized up to terminal) Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max.	Yes 2 244 byte
Isochronous operation (application synchronized up to terminal) 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
Isochronous operation (application synchronized up to terminal) 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
Isochronous operation (application synchronized up to terminal) 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
Isochronous operation (application synchronized up to terminal) 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
Isochronous operation (application synchronized up to terminal) 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 63
Isochronous operation (application synchronized up to terminal) 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 63 63; When using Alarm_S/SQ and Alarm_D/DQ
Isochronous operation (application synchronized up to terminal) 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 • 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 63 63; When using Alarm_S/SQ and Alarm_D/DQ
Isochronous operation (application synchronized up to terminal) 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 • Number of connectable OPs with message processing • Supported	Yes 2 244 byte 1 ms; 0.5 ms without use of SFC 126, 127 32 ms Yes 63 63; When using Alarm_S/SQ and Alarm_D/DQ Yes
Isochronous operation (application synchronized up to terminal) 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 63 63; When using Alarm_S/SQ and Alarm_D/DQ Yes Yes
Isochronous operation (application synchronized up to terminal) 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. • Number of GD packets, transmitter, max.	Yes 2 244 byte 1 ms; 0.5 ms without use of SFC 126, 127 32 ms Yes 63 63; When using Alarm_S/SQ and Alarm_D/DQ Yes Yes 8 8
Isochronous operation (application synchronized up to terminal) 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 63 63; When using Alarm_S/SQ and Alarm_D/DQ Yes Yes 8

S7 basic communication • supported Ye • User data per job, max. 76 • User data per job (of which consistent), max. 1 v S7 communication 1 v	byte variable
 supported User data per job, max. User data per job (of which consistent), max. S7 communication 	byte variable
User data per job, max. User data per job (of which consistent), max. S7 communication	byte variable
• User data per job (of which consistent), max. 1 v S7 communication	variable
S7 communication	
	25
• supported Ye	
• as server Ye	
• as client Ye	
	l kbyte
···· ··· ··· ··· ··· ··· ··· ··· ··· ·	62 byte; 1 variable
User data per job (of which consistent), max. 462 S5 compatible communication	
	es; Via FC AG_SEND and AG_RECV, max. via 10 CP 443-1 or
	13-5
• User data per job, max. 8 k	kbyte
	10 byte
	1/24
orders per CPU, max.	
Standard communication (FMS)	
• supported Ye	es; Via CP and loadable FB
Number of connections	
• overall 64	l de la constante de
• usable for PG communication 63	3
- reserved for PG communication 1	
- adjustable for PG communication, max. 0	
• usable for OP communication 63	3
- reserved for OP communication 1	
- adjustable for OP communication, max. 0	
• usable for S7 basic communication 62	2
- reserved for S7 basic communication 0	
- adjustable for S7 basic communication, 0	
max.	
• usable for S7 communication 62	2
- reserved for S7 communication 0	
- adjustable for S7 communication, max. 0	
• usable for routing 31	
- reserved for routing 0	
- adjustable for routing, max. 0	
S7 message functions	
	3; Max. 63 with Alarm_S/SQ and Alarm_D/DQ (OPs); max. 8
wit	th Alarm, Alarm_8, Alarm_8P, Notify and Notify_8 (e.g. WinCC)
Symbol-related messages Ye	es

SCAN procedure	Yes
Program alarms	Yes
Process diagnostic messages	Yes
simultaneously active Alarm-S blocks, max.	400; 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. 	1 200
● preset, max.	300
Process control messages	Yes
Number of archives that can log on simultaneously (SFB 37 AR_SEND)	16
Number of messages	
● overall, max.	512
● in 100 ms grid, max.	128
● in 500 ms grid, max.	256
● in 1000 ms grid, max.	512
Number of additional values	
 with 100 ms grid, max. 	1
• with 500, 1000 ms grid, max.	10
Test commissioning functions	
Status block	Yes; Up to 16 simultaneously
Single step	Yes
Number of breakpoints	16
Status/control	
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. 	256
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
UL approval	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
Use in hazardous areas	
• ATEX	ATEX II 3G Ex nA IIC T4 Gc

Ambient conditions		
Ambient temperature during operation		
• min.	0°0	
● 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	
- 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
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