SIEMENS

Data sheet

6ES7417-4XT07-0AB0



SIMATIC S7-400, CPU 417-4 Central processing unit with: Work memory 32 MB, (16 MB code; 16 MB data) 1st interface MPI 12 Mbit/s; 2nd interface PROFIBUS DP, 3rd/4th interface plug-in IFM module

General information	
Product type designation	CPU 417-4
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	60 ms
CiR synchronization time, time per I/O byte	7 µs
Supply voltage	
Rated value (DC)	Power supply via system power supply
Input current	
from backplane bus 5 V DC, typ.	1.3 A
from backplane bus 5 V DC, max.	1.6 A
from backplane bus 24 V DC, max.	600 mA; 150 mA per DP interface
from interface 5 V DC, max.	90 mA; At each DP interface
Power loss	
Power loss, typ.	6.5 W
Power loss, max.	8 W
Memory	
Type of memory	RAM
Work memory	
 integrated 	32 Mbyte
 integrated (for program) 	16 Mbyte
 integrated (for data) 	16 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	

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Backup current, typ.	225 μA; up to 40 °C
Backup current, max.	1 275 μA
Backup time, max. Foodian of actional backup well-	See reference manual, module data, Chapter 3.3
Feeding of external backup voltage to CPU	5 V DC to 15 V DC
CPU processing times	
for bit operations, typ.	7.5 ns
for word operations, typ.	7.5 ns
for fixed point arithmetic, typ.	7.5 ns
for floating point arithmetic, typ.	15 ns
CPU-blocks	
DB	
• Number, max.	16 000; Number range: 1 to 16000
• Size, max.	64 kbyte
FB	
• Number, max.	8 000; Number range: 0 to 7999
• Size, max.	64 kbyte
FC	
• Number, max.	8 000; Number range: 0 to 7999
• Size, max.	64 kbyte
OB	and instruction list
• 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 = $500 \ \mu$ s)
 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
• Туре	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 (incl. timers, counters, flags), max.	Total working and load memory (with backup battery)
Flag	
• Size, 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. 	64 kbyte
• preset	32 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 	1 024 byte
Outputs, default	1 024 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
— of which central	131 072
Analog channels	0.400
Inputs of which control	8 192 8 192
— of which central • Outputs	8 192
outputs — of which central	8 192
Hardware configuration	0 192
Number of expansion units, max.	21
connectable OPs	119
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	2
 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 ● CP. PtP	Limited by number of slots and number of connections CP 440: Limited by number of slots; CP 441: limited by number of connections
PROFIBUS and Ethernet CPs	14; Of which 10 CPs max. or IMs as DP master, 4 PROFINET controller maximum
Slots	

required slots	2
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	Yes
Time difference in system when synchronizing via	
• MPI, max.	200 ms
nterfaces	
Interfaces/bus type	1 x MPI/PROFIBUS DP, 1 x PROFIBUS DP, 2 x PROFIBUS DP (optionally
	pluggable)
Number of RS 485 interfaces	2; Combined MPI / PROFIBUS DP and PROFIBUS DP
Number of RS 485 interfaces Number of other interfaces	2; Combined MPI / PROFIBUS DP and PROFIBUS DP 2; PROFIBUS DP with IF 964-DP (plug-in option; MLFB: 6ES7964-2AA04-
Number of other interfaces	2; Combined MPI / PROFIBUS DP and PROFIBUS DP
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Number of other interfaces I. Interface Interface type	2; Combined MPI / PROFIBUS DP and PROFIBUS DP 2; PROFIBUS DP with IF 964-DP (plug-in option; MLFB: 6ES7964-2AA04- 0AB0) MPI/PROFIBUS DP
Number of other interfaces I. Interface Interface type Isolated	2; Combined MPI / PROFIBUS DP and PROFIBUS DP 2; PROFIBUS DP with IF 964-DP (plug-in option; MLFB: 6ES7964-2AA04- 0AB0)
Number of other interfaces I. Interface Interface type Isolated Interface types	2; Combined MPI / PROFIBUS DP and PROFIBUS DP 2; PROFIBUS DP with IF 964-DP (plug-in option; MLFB: 6ES7964-2AA04- 0AB0) MPI/PROFIBUS DP Yes
Number of other interfaces I. Interface Interface type Isolated Interface types • RS 485	2; Combined MPI / PROFIBUS DP and PROFIBUS DP 2; PROFIBUS DP with IF 964-DP (plug-in option; MLFB: 6ES7964-2AA04-0AB0) MPI/PROFIBUS DP Yes Yes
Number of other interfaces I. Interface Interface type Isolated Interface types • RS 485 • Output current of the interface, max.	2; Combined MPI / PROFIBUS DP and PROFIBUS DP 2; PROFIBUS DP with IF 964-DP (plug-in option; MLFB: 6ES7964-2AA04- 0AB0) MPI/PROFIBUS DP Yes
Number of other interfaces I. Interface Interface type Isolated Interface types • RS 485 • Output current of the interface, max. Protocols	2; Combined MPI / PROFIBUS DP and PROFIBUS DP 2; PROFIBUS DP with IF 964-DP (plug-in option; MLFB: 6ES7964-2AA04- 0AB0) MPI/PROFIBUS DP Yes Yes 150 mA
Number of other interfaces Interface Interface type Isolated Interface types • RS 485 • Output current of the interface, max. Protocols • MPI	2; Combined MPI / PROFIBUS DP and PROFIBUS DP 2; PROFIBUS DP with IF 964-DP (plug-in option; MLFB: 6ES7964-2AA04-0AB0) MPI/PROFIBUS DP Yes 150 mA Yes Yes Yes
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Number of other interfaces Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP slave	2; Combined MPI / PROFIBUS DP and PROFIBUS DP 2; PROFIBUS DP with IF 964-DP (plug-in option; MLFB: 6ES7964-2AA04-0AB0) MPI/PROFIBUS DP Yes 150 mA Yes Yes Yes
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Number of other interfaces Interface Interface type Isolated Interface types • RS 485 • Output current of the interface, max. Protocols • MPI • PROFIBUS DP master • PROFIBUS DP slave MPI • Number of connections	2; Combined MPI / PROFIBUS DP and PROFIBUS DP 2; PROFIBUS DP with IF 964-DP (plug-in option; MLFB: 6ES7964-2AA04-0AB0) MPI/PROFIBUS DP Yes
Number of other interfaces Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP slave MPI Number of connections Transmission rate, max.	2; Combined MPI / PROFIBUS DP and PROFIBUS DP 2; PROFIBUS DP with IF 964-DP (plug-in option; MLFB: 6ES7964-2AA04-0AB0) MPI/PROFIBUS DP Yes 150 mA Yes
Number of other interfaces Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP slave MPI Number of connections Transmission rate, max. Services	2; Combined MPI / PROFIBUS DP and PROFIBUS DP 2; PROFIBUS DP with IF 964-DP (plug-in option; MLFB: 6ES7964-2AA04-0AB0) MPI/PROFIBUS DP Yes 150 mA Yes 44; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1 12 Mbit/s
Number of other interfaces Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP slave MPI Number of connections Transmission rate, max. Services — PG/OP communication	2; Combined MPI / PROFIBUS DP and PROFIBUS DP 2; PROFIBUS DP with IF 964-DP (plug-in option; MLFB: 6ES7964-2AA04- 0AB0) MPI/PROFIBUS DP Yes 150 mA Yes Yes 44; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1 12 Mbit/s
Number of other interfaces Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP slave MPI Number of connections Transmission rate, max. Services — PG/OP communication — Routing	2; Combined MPI / PROFIBUS DP and PROFIBUS DP 2; PROFIBUS DP with IF 964-DP (plug-in option; MLFB: 6ES7964-2AA04- 0AB0) MPI/PROFIBUS DP Yes
Number of other interfaces Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP slave MPI Number of connections Transmission rate, max. Services — PG/OP communication — Routing — Global data communication	2; Combined MPI / PROFIBUS DP and PROFIBUS DP 2; PROFIBUS DP with IF 964-DP (plug-in option; MLFB: 6ES7964-2AA04-0AB0) MPI/PROFIBUS DP Yes
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Number of other interfaces 1. Interface Interface type Isolated Interface types • RS 485 • Output current of the interface, max. Protocols • MPI • PROFIBUS DP master • PROFIBUS DP slave MPI • Number of connections • Transmission rate, max. Services - PG/OP communication - Routing - Global data communication - S7 communication - S7 communication - S7 communication, as client - S7 communication, as server	2; Combined MPI / PROFIBUS DP and PROFIBUS DP 2; PROFIBUS DP with IF 964-DP (plug-in option; MLFB: 6ES7964-2AA04-0AB0) MPI/PROFIBUS DP Yes
Number of other interfaces 1. Interface Interface type Isolated Interface types • RS 485 • Output current of the interface, max. Protocols • MPI • PROFIBUS DP master • PROFIBUS DP slave MPI • Number of connections • Transmission rate, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication	2; Combined MPI / PROFIBUS DP and PROFIBUS DP 2; PROFIBUS DP with IF 964-DP (plug-in option; MLFB: 6ES7964-2AA04- 0AB0) MPI/PROFIBUS DP Yes 150 mA Yes Yes <tr< td=""></tr<>

Transmission rate, max.	12 Mbit/s
Number of DP slaves, max.	32
Services	52
— 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
	Tes
Address area	2 khuto
— 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	No
communication)	
— DPV1	No
Transfer memory	
— Inputs	244 byte
— Outputs	244 byte
2. Interface	
Interface type	PROFIBUS DP
Isolated	Yes
Number of connection resources	32
Interface types	
RS 485	Yes
Output current of the interface, max.	150 mA
Protocols	Vez
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
Number of DP slaves, max. 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.	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
3. Interface	
Interface type	pluggable interface module (IF), technical data as for 2nd interface
Plug-in interface modules	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0)
Isolated	Yes
automatic detection of transmission rate	No
Number of connection resources	32
Interface types	
• RS 485	Yes
Output current of the interface, max.	150 mA
Protocols	
• MPI	No
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	X
- PG/OP communication	Yes
- Routing	Yes; S7 routing
 Global data communication 	No
— S7 basic communication	Yes

	Nee.
— 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
— DPV0	Yes
— 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
 automatic baud rate search 	No
 Address area, max. 	32
• User data per address area, max.	32 byte
— of which consistent, max.	32 byte
Services	
— PG/OP communication	Yes
— 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
4. Interface	
Interface type	pluggable interface module (IF), technical data as for 2nd interface
Plug-in interface modules	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0)
Protocols	
SIMATIC communication	
S7 routing	Yes
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	
supported	No
Isochronous mode	
Equidistance	Yes
Number of DP masters with isochronous mode	4
User data per isochronous slave, max.	244 byte
shortest clock pulse	1 ms; 0.5 ms without use of SFC 126, 127
max. cycle	32 ms
communication functions / header	
PG/OP communication	Yes
 Number of connectable OPs without message processing 	119
 Number of connectable OPs with message processing 	119; When using Alarm_S/SQ and Alarm_D/DQ

Data record routing	Yes
Global data communication	
supported	Yes
Number of GD loops, max.	16
	16
Number of GD packets, transmitter, max.	
Number of GD packets, receiver, max.	32
• Size of GD packets, max.	54 byte
Size of GD packet (of which consistent), max.	1 variable
S7 basic communication	
communication function / S7 basic communication	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	120
 usable for PG communication 	119
 reserved for PG communication 	1
 adjustable for PG communication, max. 	0
usable for OP communication	119
 reserved for OP communication 	1
 adjustable for OP communication, max. 	0
usable for S7 basic communication	118
 reserved for S7 basic communication 	0
- adjustable for S7 basic communication, max.	0
usable for S7 communication	118
- reserved for S7 communication	0
- adjustable for S7 communication, max.	0
usable for routing	59
- reserved for routing	0
— adjustable for routing, max.	0
S7 message functions	
Number of login stations for message functions, max.	119; Max. 119 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
SCAN procedure	Yes
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. 	10 000
• preset, max.	1 200
Process control messages	Yes
Number of archives that can log on simultaneously (SFB 37 AR_SEND)	64
Number of messages	
Number of messages overall, max. 	1 024
-	1 024 128

e in 1000 ms grid may	1 024
in 1000 ms grid, max.	1 024
Number of additional values	1
• 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.	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
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°C
• max.	60 °C
configuration / header	
Configuration software	
• STEP 7	Yes
configuration / programming / header	
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
configuration / programming / number of simultaneously active	
- 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
	o, or o oo, por 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	
configuration / programming / number of simultaneously active SFB / header		
- 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	50 mm	
Height	290 mm	
Depth	219 mm	
Weights		
Weight, approx.	900 g	
last modified:	9/7/2023 🖸	