SIEMENS

Data sheet

6ES7416-2FN05-0AB0



*********** Replacement part ********* SIMATIC S7-400, CPU 416F-2, Central processing unit with: work memory 5.6 MB, (2.8 MB code, 2.8 MB data), 1st interface MPI/DP 12 Mbit/s, 2nd interface PROFIBUS DP Can be used with software package Distributed Safety as of V5.2+SP2

Figure similar

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General information	
Product type designation	CPU 416F-2
HW functional status	03
Firmware version	V5.3
Product function	
Isochronous mode	Yes; For PROFIBUS only
Engineering with	
Programming package	STEP 7 V5.3 SP2 or higher with hardware update, Distributed Safety V5.2 SP2 or higher
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)	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
from interface 5 V DC, max.	90 mA; At each DP interface
Power loss	
Power loss, typ.	4.5 W
Power loss, max.	5 W
Memory	
Type of memory	other
Work memory	
integrated	5.6 Mbyte
integrated (for program)	2.8 Mbyte
• integrated (for data)	2.8 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. 	125 μA; up to 40 °C
 Backup current, max. 	550 μA
Backup time, max.	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.	30 ns
for word operations, typ.	30 ns
for fixed point arithmetic, typ.	30 ns
for floating point arithmetic, typ.	90 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
FC	
Number, max.	5 000; 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 	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	2; 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
— upper innit — 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	oriminated (minimated oring by terminated country)
Number	2 048
Retentivity	
— adjustable	Yes
o organization of	

— 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. 	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
— of which central	131 072
Analog channels	
• Inputs	8 192
— of which central	8 192
Outputs	8 192
— of which central	8 192
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 not suitable for use with CP 443-5 Ext. and CP 443-1 EX4x, EX20, GX20 (in PROFINET IO mode)
via interface module	0
 Number of pluggable S5 modules (via adapter capsule in central device), max. 	6

N 1 (12.2) 1 "	
Number of IO Controllers	
integrated	0
● via CP	4; No mixed operation of CP443-1 EX40 and CP443-1 EX 41/EX20/GX20, max. 4 in central controller
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; Of which 10 CPs max. or IMs as DP master, 4 PROFINET controller maximum
Slots	
required slots	1
Time of day	
Clock	
Hardware clock (real-time)	Yes
,	Yes
retentive and synchronizable Recolution	
Resolution Parieties and dev (buffered), many	1 ms
Deviation per day (buffered), max. Position and day (substitute and buffered).	1.7 s; Power off
Deviation per day (unbuffered), max.	8.6 s; For power On
Operating hours counter	40
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	200 1110
	2; Combined MPI / PROFIBUS DP and PROFIBUS DP
Number of RS 485 interfaces	
Optical interface	No
1. Interface	
Interface type	MPI/PROFIBUS DP
Isolated	Yes
Interface types	
• RS 485	Yes
Output current of the interface, max.	150 mA
Protocols	
• MPI	Yes
 PROFIBUS DP master 	Yes
PROFIBUS DP slave	Yes
MPI	
Number of connections	44; 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
— Routing — 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.	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
	110
= AUDIESS AIES IIISX	32: Virtual slots
Address area, max. User data per address area, max.	32; Virtual slots
• User data per address area, max.	32 byte
User data per address area, max. — of which consistent, max.	
User data per address area, max. — of which consistent, max. Services	32 byte 32 byte
User data per address area, max. — of which consistent, max. Services — PG/OP communication	32 byte 32 byte Yes; with interface active
 User data per address area, max. — of which consistent, max. Services — PG/OP communication — Routing 	32 byte 32 byte Yes; with interface active Yes; with interface active
 User data per address area, max. — of which consistent, max. Services — PG/OP communication — Routing — Global data communication 	32 byte 32 byte Yes; with interface active Yes; with interface active No
User data per address area, max. — of which consistent, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication	32 byte 32 byte Yes; with interface active Yes; with interface active No No
User data per address area, max. — of which consistent, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication	32 byte 32 byte Yes; with interface active Yes; with interface active No No Yes
User data per address area, max. — of which consistent, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication — S7 communication, as client	32 byte Yes; with interface active Yes; with interface active No No Yes Yes
User data per address area, max. — of which consistent, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication, as client — S7 communication, as server	32 byte 32 byte Yes; with interface active Yes; with interface active No No Yes
User data per address area, max. — of which consistent, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication, as client — S7 communication, as server — Direct data exchange (slave-to-slave communication)	32 byte Yes; with interface active Yes; with interface active No No Yes Yes
User data per address area, max. — of which consistent, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication — S7 communication, as client — S7 communication, as server — Direct data exchange (slave-to-slave)	32 byte Yes; with interface active Yes; with interface active No No Yes Yes Yes
User data per address area, max. — of which consistent, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication, as client — S7 communication, as server — Direct data exchange (slave-to-slave communication)	32 byte Yes; with interface active Yes; with interface active No No Yes Yes Yes Yes Yes No
User data per address area, max. — of which consistent, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication — S7 communication, as client — S7 communication, as server — Direct data exchange (slave-to-slave communication) — DPV1	32 byte Yes; with interface active Yes; with interface active No No Yes Yes Yes Yes Yes No
User data per address area, max. — of which consistent, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication — S7 communication, as client — S7 communication, as server — Direct data exchange (slave-to-slave communication) — DPV1 Transfer memory	32 byte Yes; with interface active Yes; with interface active No No Yes Yes Yes Yes No No No
User data per address area, max. — of which consistent, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication — S7 communication, as client — S7 communication, as server — Direct data exchange (slave-to-slave communication) — DPV1 Transfer memory — Inputs	32 byte Yes; with interface active Yes; with interface active No No Yes Yes Yes Yes Yes No No No
User data per address area, max. — of which consistent, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication, as client — S7 communication, as server — Direct data exchange (slave-to-slave communication) — DPV1 Transfer memory — Inputs — Outputs	32 byte Yes; with interface active Yes; with interface active No No Yes Yes Yes Yes Yes No No No
User data per address area, max. — of which consistent, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication, as client — S7 communication, as server — Direct data exchange (slave-to-slave communication) — DPV1 Transfer memory — Inputs — Outputs 2. Interface	32 byte Yes; with interface active Yes; with interface active No No Yes Yes Yes Yes Yes Yes Ano No
User data per address area, max. — of which consistent, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication, as client — S7 communication, as server — Direct data exchange (slave-to-slave communication) — DPV1 Transfer memory — Inputs — Outputs 2. Interface Interface type	32 byte Yes; with interface active Yes; with interface active No No Yes Yes Yes Yes Yes Yes Ano No Profibus DP
User data per address area, max. — of which consistent, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication, as client — S7 communication, as server — Direct data exchange (slave-to-slave communication) — DPV1 Transfer memory — Inputs — Outputs 2. Interface Interface type Isolated	32 byte Yes; with interface active Yes; with interface active No No No Yes Yes Yes Yes No No Po Profibus DP Yes
User data per address area, max. — of which consistent, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication, as client — S7 communication, as server — Direct data exchange (slave-to-slave communication) — DPV1 Transfer memory — Inputs — Outputs 2. Interface Interface type Isolated Number of connection resources	32 byte Yes; with interface active Yes; with interface active No No No Yes Yes Yes Yes No No Po Profibus DP Yes
User data per address area, max. — of which consistent, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication, as client — S7 communication, as server — Direct data exchange (slave-to-slave communication) — DPV1 Transfer memory — Inputs — Outputs 2. Interface Interface type Isolated Number of connection resources Interface types	32 byte Yes; with interface active Yes; with interface active No No No Yes Yes Yes Yes No No Po Profibus DP Yes 32
User data per address area, max. — of which consistent, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication, as client — S7 communication, as server — Direct data exchange (slave-to-slave communication) — DPV1 Transfer memory — Inputs — Outputs 2. Interface Interface type Isolated Number of connection resources Interface types • RS 485	32 byte Yes; with interface active Yes; with interface active No No No Yes Yes Yes Yes No No Po PROFIBUS DP Yes 32 Yes
User data per address area, max. — of which consistent, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication, as client — S7 communication, as server — Direct data exchange (slave-to-slave communication) — DPV1 Transfer memory — Inputs — Outputs 2. Interface Interface type Isolated Number of connection resources Interface types • RS 485 • Output current of the interface, max.	32 byte Yes; with interface active Yes; with interface active No No No Yes Yes Yes Yes No No Po PROFIBUS DP Yes 32 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; 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	044 h. t-
— User data per DP slave, max.	244 byte
— Inputs, max.	244 byte
— Outputs, max.	244 byte
— Slots, max.	244 138 byto
— per slot, max. PROFIBUS DP slave	128 byte
Number of connections	32
Number of connections GSD file	
Transmission rate, max.	http://support.automation.siemens.com/WW/view/en/113652 12 Mbit/s
Address area, max.	32
User data per address area, max.	32 byte
oser data per address area, max. — of which consistent, max.	32 byte
Services	02.07.0
— Routing	Yes; with interface active
Transfer memory	. 33, This interface deare
— Inputs	244 byte
— Outputs	244 byte
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	2
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	63
processing	
 Number of connectable OPs with message 	63; When using Alarm_S/SQ and Alarm_D/DQ

Data record routing Yes	processing	
Signature Sign		Yes
*supported *Number of GD packets, transmitter, max. *Number of GD packets, transmitter, max. *Number of GD packets, transmitter, max. *Size of GD packets, max. *User data per job, (of which consistent), max. *Size of GD packets, max. *Size of		
Number of GD packets, transmitter, max. Number of GD packets, transmitter, max. Size of GD packets, max. Size of GD packets	• supported	Yes
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Number of GD packets, receiver, max. Size of GD packets (not which consistent), max. Size of GD packets (of which consistent), max. Yes User data per job, max. Suber data per job (of which consistent), max. Ves Size of GD packets, max. Suber data per job (of which consistent), max. Ves Size of GD packets, max. Suber data per job (of which consistent), max. Ves Size of data per job (of which consistent), max. Ves Size of data per job (of which consistent), max. Size of data per job (of which consistent), max. Ves Size of data per job, max. Size of data per job of data per	Number of GD packets, transmitter, max.	16
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Supported User data per job, max. User data per job (of which consistent), max. Number of simultaneous AG-SEND/AG-RECV orders per CPU, max. Standard communication (FMS) supported Yes; Via CP and loadable FB Number of connections overall usable for PG communication — reserved for PG communication — adjustable for PG communication — adjustable for PG communication — adjustable for OP communication — adjustable for OP communication — adjustable for ST basic communication — adjustable for ST basic communication — adjustable for ST basic communication — adjustable for ST osaic communication — adjustable for ST communication — adjustable for ST communication — adjustable for ST communication — adjustable for strouting — reserved for ST communication — adjustable for routing — adjustable for strouting — adjustable for strouting — adjustable for routing — adjustable for routing — adjustable for routing — adjustable for strouting — adjustable for strouting — adjustable for routing — adjustab		TOE DYIC, I VAIIANIC
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Number of simultaneous AG-SEND/AG-RECV orders per CPU, max.		•
supported Yes; Via CP and loadable FB Number of connections • overall 64 • usable for PG communication 1 - adjustable for PG communication 1 - adjustable for OP communication 1 - adjustable for OP communication 1 - adjustable for OP communication 1 - adjustable for S7 basic communication 62 - reserved for S7 communication 62 - solution 63 - reserved for S7 communication 62 - solution 63 - reserved for S7 communication 62 - reserved for S7 communication 70 - adjustable for routing 70 - adjustable for routing 70 - adjustable for routing 70 - reserved for S7 communication 70 - adjustable for routing 70 - reserved for S7 communication 70 - adjustable for routing 70 - reserved for S7 communication 70 - adjustable for routing 70 - reserved for S7 communication 70 - reserved		
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- reserved for PG communication	usable for PG communication	63
- adjustable for PG communication, max. • usable for OP communication - reserved for OP communication - adjustable for OP communication, max. • usable for S7 basic communication - adjustable for S7 basic communication - adjustable for S7 basic communication - adjustable for S7 basic communication, max. • usable for S7 communication - adjustable for routing - adjustable for routing - adjustable for routing - adjustable for routing - adjustable for routing, max. S7 message functions Number of login stations for message functions, max. - Symbol-related messages - Yes SCAN procedure - Yes SCAN procedure - Yes - Program alarms - Process diagnostic messages - Yes - Process diagnostic messages - Yes - Process diagnostic messages - Number of instances for alarm 8 and S7 - communication blocks, max. - Preset, max. - Process control messages Number of archives that can log on simultaneously (SFB Number of archives that can log on simultaneously (SFB Number of messages Number of messages		
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Process control messages Number of archives that can log on simultaneously (SFB 37 AR_SEND) Number of messages		600
Number of archives that can log on simultaneously (SFB 37 AR_SEND) Number of messages		Yes
37 AR_SEND) Number of messages		
• overall, max. 1 024	-	
	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	V 11 1 0 1 1 1
Status block	Yes; Up to 2 simultaneously
Single step	Yes
Number of breakpoints Status/control	4
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	10, Oldido Control
• 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	ATEVIL 2C Ev pA IIC TA Co
	ATEX II 3G Ex nA IIC T4 Gc
Ambient conditions	
Ambient temperature during operation	0.00
• min.	0 °C 60 °C
• max.	80 C
configuration / header	
Configuration software • STEP 7	Yes
configuration / programming / header	160
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 SFC / header
— number of simultaneously active system	2; SFC 11; per interface
functions (SFC) / with DPSYC_FR	

- RD_REC - WR_REC - WR_PARM - PARM - PARM_MOD - PARM_MOD - SFC 55; per interface - WR_DPARM - PARM_MOD - SFC 56; per interface - WR_DPARM - PARM_DPARM - SFC 57; per interface - WR_DPARM - SFC 56; per interface - DPNRM_DG - RDSYSST - DP_TOPOL - SFC 103; per interface - RDREC - SFB 52; per interface, but not more than 32 across all external interfaces - WRREC - WRREC - WRREC - SFB 53; per interface, but not more than 32 across all external interfaces - WRREC - SFB 53; per interface, but not more than 32 across all external interfaces - WRREC - WRREC - SFB 53; per interface, but not more than 32 across all external interfaces - WRREC	 number of simultaneously active system functions (SFC) / with D_ACT_DP 	8; SFC 12; 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 - 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 Dimensions Width 25 mm Height 290 mm Depth 219 mm Weights	• • • • • •	8; SFC 59; 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 - 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 Dimensions Width 25 mm Height 290 mm Depth 219 mm Weights	— WR_REC	8; SFC 58; per interface
- WR_DPARM - DPNRM_DG - RDSYSST - DP_TOPOL - TOPOL - RDREC - RDREC - WRREC - W	— WR_PARM	8; SFC 55; per interface
- DPNRM_DG	— PARM_MOD	1; SFC 57; per interface
— RDSYSST — 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	— WR_DPARM	2; SFC 56; per interface
- 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 Dimensions Width 25 mm Height 290 mm Depth 219 mm Weights	— DPNRM_DG	8; SFC 13; per interface
configuration / programming / number of simultaneously active SFB / header — RDREC — WRREC 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 Dimensions Width 25 mm Height 290 mm Depth 219 mm Weights	— RDSYSST	8
 — RDREC — WRREC 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 Dimensions Width 25 mm Height Depth 290 mm Depth Weights 	— DP_TOPOL	1; SFC 103; per interface
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 Dimensions Width 25 mm Height 290 mm Depth 219 mm Weights	configuration / programming / number of simultaneously active SFB / header	
interfaces Know-how protection	— RDREC	
● User program protection/password protection Dimensions Width 25 mm Height 290 mm Depth 219 mm Weights	— WRREC	
Dimensions Width 25 mm Height 290 mm Depth 219 mm Weights ***	Know-how protection	
Width 25 mm Height 290 mm Depth 219 mm Weights ***	 User program protection/password protection 	Yes
Height 290 mm Depth 219 mm Weights	Dimensions	
Depth 219 mm Weights	Width	25 mm
Weights	Height	290 mm
	Depth	219 mm
	Weights	
Weight, approx. 700 g	Weight, approx.	700 g