SIEMENS

Data sheet

6ES7414-3XM07-0AB0



SIMATIC S7-400, CPU 414-3 Central processing unit with: Work memory 4 MB, (2 MB code, 2 MB data), 1st interface MPI/DP 12 Mbit/s, 2nd interface PROFIBUS DP, 3rd interface plug-in IFM module

General information	
Product type designation	CPU 414-3
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	15 µs
Supply voltage	
Rated value (DC)	Power supply via system power supply
Input current	
from backplane bus 5 V DC, typ.	1.1 A
from backplane bus 5 V DC, max.	1.3 A
from backplane bus 24 V DC, max.	450 mA; 150 mA per DP interface
from interface 5 V DC, max.	90 mA; At each DP interface
Power loss	
Power loss, typ.	5.5 W
Memory	
Type of memory	RAM
Work memory	
• integrated	4 Mbyte
integrated (for program)	2 Mbyte
integrated (for data)	2 Mbyte
expandable	
- evhauranie	No
Load memory	No
	No Yes; with Memory Card (FLASH)
Load memory	
Load memory • expandable FEPROM	Yes; with Memory Card (FLASH)
Load memory • expandable FEPROM • expandable FEPROM, max.	Yes; with Memory Card (FLASH) 64 Mbyte
Load memory • expandable FEPROM • expandable FEPROM, max. • integrated RAM, max.	Yes; with Memory Card (FLASH) 64 Mbyte 512 kbyte
Load memory • expandable FEPROM • expandable FEPROM, max. • integrated RAM, max. • expandable RAM	Yes; with Memory Card (FLASH) 64 Mbyte 512 kbyte Yes; with Memory Card (RAM)
Load memory • expandable FEPROM • expandable FEPROM, max. • integrated RAM, max. • expandable RAM • expandable RAM, max.	Yes; with Memory Card (FLASH) 64 Mbyte 512 kbyte Yes; with Memory Card (RAM)
Load memory • expandable FEPROM • expandable FEPROM, max. • integrated RAM, max. • expandable RAM • expandable RAM, max. Backup	Yes; with Memory Card (FLASH) 64 Mbyte 512 kbyte Yes; with Memory Card (RAM) 64 Mbyte
Load memory • expandable FEPROM • expandable FEPROM, max. • integrated RAM, max. • expandable RAM • expandable RAM, max. Backup • present • with battery • without battery	Yes; with Memory Card (FLASH) 64 Mbyte 512 kbyte Yes; with Memory Card (RAM) 64 Mbyte Yes
Load memory • expandable FEPROM • expandable FEPROM, max. • integrated RAM, max. • expandable RAM • expandable RAM, max. Backup • present • with battery	Yes; with Memory Card (FLASH) 64 Mbyte 512 kbyte Yes; with Memory Card (RAM) 64 Mbyte Yes Yes; all data
Load memory • expandable FEPROM • expandable FEPROM, max. • integrated RAM, max. • expandable RAM • expandable RAM, max. Backup • present • with battery • without battery	Yes; with Memory Card (FLASH) 64 Mbyte 512 kbyte Yes; with Memory Card (RAM) 64 Mbyte Yes Yes; all data

Backup current, max.	850 μΑ	
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	3 V DC to 13 V DC	
for bit operations, typ.	18.75 ns	
	18.75 ns	
for word operations, typ. for fixed point arithmetic, typ.	18.75 ns	
·		
for floating point arithmetic, typ. CPU-blocks	37.5 ns	
DB Number may	6 000: Number range: 1 to 16000	
Number, max. Sine may	6 000; Number range: 1 to 16000	
Size, max. FB	64 kbyte	
Number, max.	3.000: Number range: 0 to 7000	
	3 000; Number range: 0 to 7999	
• Size, max.	64 kbyte	
	3 000; Number range: 0 to 7999	
Number, max.Size, max.	64 kbyte	
• Size, max.	UH KUYE	
Number, max.	see instruction list	
	64 kbyte	
Size, max.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 μs)	
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	
	1; OB 60	
Number of multicomputing OBsNumber of background OBs	1; OB 90	
	3; OB 100-102	
Number of startup OBs Number of seventropous error OBs		
Number of asynchronous error OBs Number of augustronous error OBs	9; OB 80-88	
Number of synchronous error OBs Nesting depth	2; OB 121, 122	
per priority class	24	
additional within an error OB	1	
Counters, timers and their retentivity		
S7 counter		
Number	2 048	
Retentivity	2 040	
— adjustable	Yes	
•	Z 0 to Z 7	
— preset Counting range	L 0 10 L 1	
— lower limit	0	
— lower limit — upper limit	999	
— upper limit IEC counter		
• present	Yes	
• Type	SFB	
Number	Unlimited (limited only by RAM capacity)	
S7 times	Character (minicor only by realist capacity)	
	2 048	
■ NUMBER	20.0	
Number Retentivity		
Retentivity	Yas	
Retentivity — adjustable	Yes No times retentive	
Retentivity — adjustable — preset	Yes No times retentive	
Retentivity — adjustable — preset Time range	No times retentive	
Retentivity — adjustable — preset Time range — lower limit	No times retentive 10 ms	
Retentivity — adjustable — preset Time range — lower limit — upper limit	No times retentive	
Retentivity — adjustable — preset Time range — lower limit — upper limit IEC timer	No times retentive 10 ms 9 990 s	
Retentivity — adjustable — preset Time range — lower limit — upper limit	No times retentive 10 ms	

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.	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	1	
Number of pluggable S5 modules (via adapter capsule in	6	
central device), max.		
Number of IO Controllers		
• integrated	0	
• via CP	4; Max. 4 in the central controller; no mixed operation of different CP 443-1	
Number of an arable Edd. 100 (types in PROFINET IO mode	
Number of operable FMs and CPs (recommended)	Limited by complete of close and the control of the	
• FM	Limited by number of slots and number of connections	
CP, PtP PROFIBILITY and Ethermatical CPa	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	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	o.o o, i oi power on	
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	165	
-	Voc	
• supported	Yes	
• to MPI, master	Yes	
• on MPI, device	Yes	
• to DP, master	Yes	
• on DP, device	Yes	
• in AS, master	Yes	
• in AS, device	Yes	
on Ethernet via NTP	No; Via CP	
• to IF 964 DP	Yes	
Time difference in system when synchronizing via		
MPI, max.	200 ms	
Interfaces		
Interfaces/bus type	1 x MPI/PROFIBUS DP, 1 x PROFIBUS DP, 1 x PROFIBUS DP (optionally pluggable)	
Number of RS 485 interfaces	2; Combined MPI / PROFIBUS DP and PROFIBUS DP	
Number of other interfaces	1; PROFIBUS DP with IF 964-DP (plug-in option; MLFB: 6ES7964-2AA04-0AB0)	
1. Interface		
1. Interface Interface type	MPI/PROFIBUS DP	
	MPI/PROFIBUS DP Yes	
Interface type		
Interface type Isolated		
Interface type Isolated Interface types	Yes	
Interface type Isolated Interface types • RS 485	Yes Yes	
Interface type Isolated Interface types RS 485 Output current of the interface, max.	Yes Yes	
Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols	Yes Yes 150 mA	
Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI	Yes Yes 150 mA Yes	
Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master	Yes Yes 150 mA Yes Yes	
Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP device	Yes Yes 150 mA Yes Yes	
Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP device MPI	Yes Yes 150 mA Yes Yes Yes Yes Yes Yes	
Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP device MPI Number of connections	Yes Yes 150 mA Yes Yes Yes Yes Yes Yes Yes Ye	
Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP device MPI Number of connections Transmission rate, max.	Yes Yes 150 mA Yes Yes Yes Yes Yes Yes Yes Ye	
Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP device MPI Number of connections Transmission rate, max. Services — PG/OP communication	Yes Yes 150 mA Yes Yes Yes Yes Yes Yes Yes Ye	
Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP device MPI Number of connections Transmission rate, max. Services — PG/OP communication — Routing	Yes 150 mA Yes Yes Yes Yes Yes Yes 32; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1 12 Mbit/s Yes	
Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP device MPI Number of connections Transmission rate, max. Services PG/OP communication Routing Global data communication	Yes Yes 150 mA Yes Yes Yes Yes Yes Yes Yes 32; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1 12 Mbit/s Yes Yes Yes Yes	
Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP device MPI Number of connections Transmission rate, max. Services PG/OP communication Routing Global data communication S7 basic communication	Yes 150 mA Yes Yes Yes Yes Yes Yes 32; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1 12 Mbit/s Yes Yes Yes Yes Yes	
Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP device MPI Number of connections Transmission rate, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication	Yes 150 mA Yes Yes Yes Yes Yes Yes Yes Yes Y	
Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP device MPI Number of connections Transmission rate, max. Services PG/OP communication Routing Global data communication S7 basic communication S7 communication S7 communication S7 communication S7 communication, as client	Yes 150 mA Yes Yes Yes Yes Yes 32; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1 12 Mbit/s Yes Yes Yes Yes Yes Yes Yes Yes Yes	
Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP device MPI Number of connections Transmission rate, max. Services PG/OP communication Routing Global data communication S7 basic communication S7 communication S7 communication S7 communication, as client S7 communication, as server	Yes 150 mA Yes Yes Yes Yes Yes Yes Yes Yes Y	
Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP device MPI Number of connections Transmission rate, max. Services PG/OP communication Routing Global data communication S7 basic communication S7 communication S7 communication S7 communication S7 communication, as client	Yes 150 mA Yes Yes Yes 32; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1 12 Mbit/s Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	
Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP device MPI Number of connections Transmission rate, max. Services PG/OP communication Routing Global data communication Routing S7 basic communication S7 communication S7 communication S7 communication, as client S7 communication, as server PROFIBUS DP master Number of connections, max.	Yes 150 mA Yes Yes Yes Yes 32; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1 12 Mbit/s Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	
Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP device MPI Number of connections Transmission rate, max. Services PG/OP communication Routing Global data communication S7 basic communication S7 communication S7 communication S7 communication S7 communication, as client S7 communication, as server PROFIBUS DP master Number of connections, max.	Yes Yes Yes Yes Yes Yes Yes Yes 32; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1 12 Mbit/s Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	
Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP device MPI Number of connections Transmission rate, max. Services PG/OP communication Routing Global data communication S7 basic communication S7 communication S7 communication S7 communication S7 communication, as client S7 communication, as server PROFIBUS DP master Number of connections, max. Transmission rate, max. max. number of DP devices	Yes 150 mA Yes Yes Yes 32; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1 12 Mbit/s Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	
Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP device MPI Number of connections Transmission rate, max. Services PG/OP communication Routing Global data communication S7 basic communication S7 communication S7 communication S7 communication S7 communication, as client S7 communication, as server PROFIBUS DP master Number of connections, max. Transmission rate, max. max. number of DP devices Services	Yes 150 mA Yes Yes Yes Yes 32; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1 12 Mbit/s Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	
Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP device MPI Number of connections Transmission rate, max. Services PG/OP communication Routing Global data communication S7 basic communication S7 communication S7 communication S7 communication S7 communication, as client S7 communication, as server PROFIBUS DP master Number of connections, max. Transmission rate, max. Transmission rate, max. max. number of DP devices Services PG/OP communication	Yes 150 mA Yes Yes Yes Yes 32; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1 12 Mbit/s Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	
Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP device MPI Number of connections Transmission rate, max. Services PG/OP communication Routing Global data communication S7 basic communication S7 communication S7 communication S7 communication S7 communication, as client S7 communication, as server PROFIBUS DP master Number of connections, max. Transmission rate, max. max. number of DP devices Services	Yes 150 mA Yes Yes Yes Yes 32; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1 12 Mbit/s Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	

C7 hasis communication	Von
— 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 devices 	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 device	
user data per DP device, max.	244 byte
— Inputs, max.	244 byte
— Outputs, max.	244 byte
— Slots, max.	244
— per slot, max.	128 byte
1st interface / PROFIBUS DP device / header	
 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
— 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
Interface types	
• RS 485	Yes
 Output current of the interface, max. 	150 mA
Protocols	
PROFIBUS DP master	Yes
PROFIBUS DP device	Yes
PROFIBUS DP master	
Number of connections, max.	16
 Transmission rate, max. 	12 Mbit/s
Transmission rate, max.max. number of DP devices	12 Mbit/s 96
max. number of DP devices	
max. number of DP devices Services	96
max. number of DP devices Services — PG/OP communication	96 Yes
max. number of DP devices Services — PG/OP communication — Routing	96 Yes Yes; S7 routing
 max. number of DP devices Services — PG/OP communication — Routing — Global data communication 	Yes Yes; S7 routing No

— S7 communication, as client	Yes	
— S7 communication, as server	Yes	
— Equidistance	Yes	
— Isochronous mode	Yes	
— SYNC/FREEZE	Yes	
 activation/deactivation of DP devices 	Yes	
 — Direct data exchange (slave-to-slave communication) 	Yes	
— DPV1	Yes	
Address area	165	
— Inputs, max.	6 kbyte	
— Outputs, max.	6 kbyte	
User data per DP device	0 kbyte	
— user data per DP device, max.	244 byte	
— Inputs, max.	244 byte	
— Outputs, max.	244 byte	
— Slots, max.	244	
— per slot, max.	128 byte	
2nd interface / PROFIBUS DP device / header	120 byte	
Number of connections	16	
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	oz byte	
— Routing	Yes; with interface active	
Transfer memory	165, With interface active	
— Inputs	244 byte	
— Outputs	244 byte	
3. Interface	244 byte	
	pluggable interface module (IF), technical data as for 2nd interface	
Interface type	pluggable interface module (IF), technical data as for 2nd interface IF 964-DP (MLFB: 6FS7964-2AA04-0AB0)	
Interface type Plug-in interface modules	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0)	
Interface type Plug-in interface modules Isolated	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0) Yes	
Interface type Plug-in interface modules Isolated automatic detection of transmission rate	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0)	
Interface type Plug-in interface modules Isolated automatic detection of transmission rate Interface types	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0) Yes No	
Interface type Plug-in interface modules Isolated automatic detection of transmission rate Interface types • RS 485	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0) Yes No Yes	
Interface type Plug-in interface modules Isolated automatic detection of transmission rate Interface types	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0) Yes No	
Interface type Plug-in interface modules Isolated automatic detection of transmission rate Interface types • RS 485 • Output current of the interface, max.	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0) Yes No Yes	
Interface type Plug-in interface modules Isolated automatic detection of transmission rate Interface types • RS 485 • Output current of the interface, max. Protocols	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0) Yes No Yes 150 mA	
Interface type Plug-in interface modules Isolated automatic detection of transmission rate Interface types • RS 485 • Output current of the interface, max. Protocols • MPI	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0) Yes No Yes 150 mA	
Interface type Plug-in interface modules Isolated automatic detection of transmission rate Interface types • RS 485 • Output current of the interface, max. Protocols • MPI • PROFIBUS DP master	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0) Yes No Yes 150 mA No Yes	
Interface type Plug-in interface modules Isolated automatic detection of transmission rate Interface types • RS 485 • Output current of the interface, max. Protocols • MPI • PROFIBUS DP master • PROFIBUS DP device	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0) Yes No Yes 150 mA No Yes	
Interface type Plug-in interface modules Isolated automatic detection of transmission rate Interface types • RS 485 • Output current of the interface, max. Protocols • MPI • PROFIBUS DP master • PROFIBUS DP device PROFIBUS DP master • Number of connections, max.	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0) Yes No Yes 150 mA No Yes Yes	
Interface type Plug-in interface modules Isolated automatic detection of transmission rate Interface types • RS 485 • Output current of the interface, max. Protocols • MPI • PROFIBUS DP master • PROFIBUS DP device PROFIBUS DP master	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0) Yes No Yes 150 mA No Yes Yes	
Interface type Plug-in interface modules Isolated automatic detection of transmission rate Interface types • RS 485 • Output current of the interface, max. Protocols • MPI • PROFIBUS DP master • PROFIBUS DP device PROFIBUS DP master • Number of connections, max. • Transmission rate, max.	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0) Yes No Yes 150 mA No Yes Yes 16 12 Mbit/s	
Interface type Plug-in interface modules Isolated automatic detection of transmission rate Interface types • RS 485 • Output current of the interface, max. Protocols • MPI • PROFIBUS DP master • PROFIBUS DP device PROFIBUS DP master • Number of connections, max. • Transmission rate, max. • max. number of DP devices	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0) Yes No Yes 150 mA No Yes Yes 16 12 Mbit/s	
Interface type Plug-in interface modules Isolated automatic detection of transmission rate Interface types • RS 485 • Output current of the interface, max. Protocols • MPI • PROFIBUS DP master • PROFIBUS DP device PROFIBUS DP master • Number of connections, max. • Transmission rate, max. • max. number of DP devices Services	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0) Yes No Yes 150 mA No Yes Yes 16 12 Mbit/s 96	
Interface type Plug-in interface modules Isolated automatic detection of transmission rate Interface types • RS 485 • Output current of the interface, max. Protocols • MPI • PROFIBUS DP master • PROFIBUS DP device PROFIBUS DP master • Number of connections, max. • Transmission rate, max. • max. number of DP devices Services — PG/OP communication	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0) Yes No Yes 150 mA No Yes Yes 16 12 Mbit/s 96 Yes	
Interface type Plug-in interface modules Isolated automatic detection of transmission rate Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP device PROFIBUS DP master Number of connections, max. Transmission rate, max. max. number of DP devices Services — PG/OP communication — Routing	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0) Yes No Yes 150 mA No Yes Yes 16 12 Mbit/s 96 Yes Yes; S7 routing	
Interface type Plug-in interface modules Isolated automatic detection of transmission rate Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP device PROFIBUS DP master Number of connections, max. Transmission rate, max. max. number of DP devices Services PG/OP communication Routing Global data communication	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0) Yes No Yes 150 mA No Yes Yes 16 12 Mbit/s 96 Yes Yes; S7 routing No	
Interface type Plug-in interface modules Isolated automatic detection of transmission rate Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP device PROFIBUS DP master Number of connections, max. Transmission rate, max. Transmission rate, max. Transmission rate, max. Protocols PROFIBUS DP master Number of connections, max. Transmission rate, max.	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0) Yes No Yes 150 mA No Yes Yes Yes 16 12 Mbit/s 96 Yes Yes; S7 routing No Yes	
Interface type Plug-in interface modules Isolated automatic detection of transmission rate Interface types • RS 485 • Output current of the interface, max. Protocols • MPI • PROFIBUS DP master • PROFIBUS DP device PROFIBUS DP master • Number of connections, max. • Transmission rate, max. • max. number of DP devices Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0) Yes No Yes 150 mA No Yes Yes 16 12 Mbit/s 96 Yes Yes; \$7 routing No Yes Yes Yes	
Interface type Plug-in interface modules Isolated automatic detection of transmission rate Interface types • RS 485 • Output current of the interface, max. Protocols • MPI • PROFIBUS DP master • PROFIBUS DP device PROFIBUS DP master • Number of connections, max. • Transmission rate, max. • max. number of DP devices Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication, as client	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0) Yes No Yes 150 mA No Yes Yes 16 12 Mbit/s 96 Yes Yes; \$7 routing No Yes Yes Yes Yes	
Interface type Plug-in interface modules Isolated automatic detection of transmission rate Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP device PROFIBUS DP master Number of connections, max. Transmission rate, max. Transmission ra	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0) Yes No Yes 150 mA No Yes Yes 16 12 Mbit/s 96 Yes Yes; \$7 routing No Yes	
Interface type Plug-in interface modules Isolated automatic detection of transmission rate Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP device PROFIBUS DP master Number of connections, max. Transmission rate, max. Transmission rat	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0) Yes No Yes 150 mA No Yes Yes Yes Yes Yes 16 12 Mbit/s 96 Yes Yes; S7 routing No Yes	
Interface type Plug-in interface modules Isolated automatic detection of transmission rate Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP device PROFIBUS DP master Number of connections, max. Transmission rate, max. Transmission rate, max. Transmission rate, max. 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	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0) Yes No Yes 150 mA No Yes Yes Yes 16 12 Mbit/s 96 Yes Yes; \$7 routing No Yes	
Interface type Plug-in interface modules Isolated automatic detection of transmission rate Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP device PROFIBUS DP master Number of connections, max. Transmission rate, max. Transmission rat	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0) Yes No Yes 150 mA No Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	
Interface type Plug-in interface modules Isolated automatic detection of transmission rate Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP device PROFIBUS DP master Number of connections, max. Transmission rate, max. Transmission rate	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0) Yes No Yes 150 mA No Yes Yes Yes Yes 16 12 Mbit/s 96 Yes Yes; \$7 routing No Yes	

— DPV1	Yes
Address area	
— Inputs, max.	6 kbyte
— Outputs, max.	6 kbyte
User data per DP device	·
— user data per DP device, max.	244 byte
— Inputs, max.	244 byte
— Outputs, max.	244 byte
— Slots, max.	244
— per slot, max.	128 byte
3rd interface / PROFIBUS DP device / header	·
Number of connections	16
GSD file	http://support.automation.siemens.com/WW/view/en/113652
 transfer rate / at the 3rd interface / as DP slave / maximum 	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	No
communication)	
— DPV1	No
Transfer memory	244 byte
— Inputs	244 byte
— Outputs	244 byte
— Outputs Protocols	·
— Outputs Protocols SIMATIC communication	244 byte
— Outputs Protocols SIMATIC communication • S7 routing	· ·
— Outputs Protocols SIMATIC communication ● S7 routing Open IE communication	244 byte
— Outputs Protocols SIMATIC communication • S7 routing Open IE communication • ISO-on-TCP (RFC1006)	Yes Via CP 443-1 and loadable FB
— Outputs Protocols SIMATIC communication ● S7 routing Open IE communication	Yes
— Outputs Protocols SIMATIC communication ● S7 routing Open IE communication ● ISO-on-TCP (RFC1006) — Data length, max. Web server	Yes Via CP 443-1 and loadable FB
— Outputs Protocols SIMATIC communication ● S7 routing Open IE communication ● ISO-on-TCP (RFC1006) — Data length, max. Web server ● supported	Yes Via CP 443-1 and loadable FB 1 452 bytes via CP 443-1 Adv.
- Outputs Protocols SIMATIC communication • \$7 routing Open IE communication • ISO-on-TCP (RFC1006) - Data length, max. Web server • supported Isochronous mode	Yes Via CP 443-1 and loadable FB 1 452 bytes via CP 443-1 Adv.
— Outputs Protocols SIMATIC communication ● S7 routing Open IE communication ● ISO-on-TCP (RFC1006) — Data length, max. Web server ● supported	Yes Via CP 443-1 and loadable FB 1 452 bytes via CP 443-1 Adv.
— Outputs Protocols SIMATIC communication • S7 routing Open IE communication • ISO-on-TCP (RFC1006) — Data length, max. Web server • supported Isochronous mode Equidistance Number of DP masters with isochronous mode	Yes Via CP 443-1 and loadable FB 1 452 bytes via CP 443-1 Adv. No Yes 3
— Outputs Protocols SIMATIC communication ● S7 routing Open IE communication ● ISO-on-TCP (RFC1006) — Data length, max. Web server ● supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max.	Yes Via CP 443-1 and loadable FB 1 452 bytes via CP 443-1 Adv. No Yes 3 244 byte
— Outputs Protocols SIMATIC communication • \$7 routing Open IE communication • ISO-on-TCP (RFC1006) — Data length, max. Web server • supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse	Yes Via CP 443-1 and loadable FB 1 452 bytes via CP 443-1 Adv. No Yes 3
— Outputs Protocols SIMATIC communication • \$7 routing Open IE communication • ISO-on-TCP (RFC1006) — Data length, max. Web server • supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse max. cycle	Yes Via CP 443-1 and loadable FB 1 452 bytes via CP 443-1 Adv. No Yes 3 244 byte 1 ms; 0.5 ms without use of SFC 126, 127
— Outputs Protocols SIMATIC communication • \$7 routing Open IE communication • ISO-on-TCP (RFC1006) — Data length, max. Web server • supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse	Yes Via CP 443-1 and loadable FB 1 452 bytes via CP 443-1 Adv. No Yes 3 244 byte 1 ms; 0.5 ms without use of SFC 126, 127
— Outputs Protocols SIMATIC communication • S7 routing Open IE communication • ISO-on-TCP (RFC1006) — Data length, max. Web server • supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse max. cycle communication functions / header PG/OP communication	Yes Via CP 443-1 and loadable FB 1 452 bytes via CP 443-1 Adv. No Yes 3 244 byte 1 ms; 0.5 ms without use of SFC 126, 127 32 ms Yes
— Outputs Protocols SIMATIC communication • \$7 routing Open IE communication • ISO-on-TCP (RFC1006) — Data length, max. Web server • supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse max. cycle communication functions / header	Yes Via CP 443-1 and loadable FB 1 452 bytes via CP 443-1 Adv. No Yes 3 244 byte 1 ms; 0.5 ms without use of SFC 126, 127 32 ms
— Outputs Protocols SIMATIC communication ● S7 routing Open IE communication ● ISO-on-TCP (RFC1006) — Data length, max. Web server ● supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse max. cycle communication functions / header PG/OP communication ● Number of connectable OPs with message processing	Yes Via CP 443-1 and loadable FB 1 452 bytes via CP 443-1 Adv. No Yes 3 244 byte 1 ms; 0.5 ms without use of SFC 126, 127 32 ms Yes 63; When using Alarm_S/SQ and Alarm_D/DQ
— Outputs Protocols SIMATIC communication • \$7 routing Open IE communication • ISO-on-TCP (RFC1006) — Data length, max. Web server • supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse max. cycle communication functions / header PG/OP communication • Number of connectable OPs without message processing • Number of connectable OPs without message processing	Yes Via CP 443-1 and loadable FB 1 452 bytes via CP 443-1 Adv. No Yes 3 244 byte 1 ms; 0.5 ms without use of SFC 126, 127 32 ms Yes 63; When using Alarm_S/SQ and Alarm_D/DQ 63
— Outputs Protocols SIMATIC communication • \$7 routing Open IE communication • ISO-on-TCP (RFC1006) — Data length, max. Web server • supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse max. cycle communication functions / header PG/OP communication • Number of connectable OPs with message processing • Number of connectable OPs without message processing Data record routing	Yes Via CP 443-1 and loadable FB 1 452 bytes via CP 443-1 Adv. No Yes 3 244 byte 1 ms; 0.5 ms without use of SFC 126, 127 32 ms Yes 63; When using Alarm_S/SQ and Alarm_D/DQ 63
— Outputs Protocols SIMATIC communication • \$7 routing Open IE communication • ISO-on-TCP (RFC1006) — Data length, max. Web server • supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse max. cycle communication functions / header PG/OP communication • Number of connectable OPs with message processing • Number of connectable OPs without message processing Data record routing Global data communication	Yes Via CP 443-1 and loadable FB 1 452 bytes via CP 443-1 Adv. No Yes 3 244 byte 1 ms; 0.5 ms without use of SFC 126, 127 32 ms Yes 63; When using Alarm_S/SQ and Alarm_D/DQ 63 Yes
— Outputs Protocols SIMATIC communication • \$7 routing Open IE communication • ISO-on-TCP (RFC1006) — Data length, max. Web server • supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse max. cycle communication functions / header PG/OP communication • Number of connectable OPs with message processing • Number of connectable OPs without message processing Data record routing Global data communication • supported	Yes Via CP 443-1 and loadable FB 1 452 bytes via CP 443-1 Adv. No Yes 3 244 byte 1 ms; 0.5 ms without use of SFC 126, 127 32 ms Yes 63; When using Alarm_S/SQ and Alarm_D/DQ 63 Yes Yes
— Outputs Protocols SIMATIC communication • S7 routing Open IE communication • ISO-on-TCP (RFC1006) — Data length, max. Web server • supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse max. cycle communication functions / header PG/OP communication • Number of connectable OPs with message processing • Number of connectable OPs without message processing Data record routing Global data communication • supported • Number of GD loops, max.	Yes Via CP 443-1 and loadable FB 1 452 bytes via CP 443-1 Adv. No Yes 3 244 byte 1 ms; 0.5 ms without use of SFC 126, 127 32 ms Yes 63; When using Alarm_S/SQ and Alarm_D/DQ 63 Yes Yes 8
— Outputs Protocols SIMATIC communication • S7 routing Open IE communication • ISO-on-TCP (RFC1006) — Data length, max. Web server • supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse max. cycle communication functions / header PG/OP communication • Number of connectable OPs with message processing • Number of connectable OPs without message processing Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, transmitter, max.	Yes Via CP 443-1 and loadable FB 1 452 bytes via CP 443-1 Adv. No Yes 3 244 byte 1 ms; 0.5 ms without use of SFC 126, 127 32 ms Yes 63; When using Alarm_S/SQ and Alarm_D/DQ 63 Yes Yes 8 8 8
— Outputs Protocols SIMATIC communication • \$7 routing Open IE communication • ISO-on-TCP (RFC1006) — Data length, max. Web server • supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse max. cycle communication functions / header PG/OP communication • Number of connectable OPs with message processing • Number of connectable OPs without message processing Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, transmitter, max. • Number of GD packets, receiver, max.	Yes Via CP 443-1 and loadable FB 1 452 bytes via CP 443-1 Adv. No Yes 3 244 byte 1 ms; 0.5 ms without use of SFC 126, 127 32 ms Yes 63; When using Alarm_S/SQ and Alarm_D/DQ 63 Yes Yes 8 8 8 16
Protocols SIMATIC communication S7 routing Open IE communication ISO-on-TCP (RFC1006) Data length, max. Web server supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse max. cycle communication functions / header PG/OP communication Number of connectable OPs with message processing Number of connectable OPs without message processing Data record routing Global data communication supported Number of GD loops, max. Number of GD packets, transmitter, max. Number of GD packets, receiver, max. Size of GD packets, max.	Yes Via CP 443-1 and loadable FB 1 452 bytes via CP 443-1 Adv. No Yes 3 244 byte 1 ms; 0.5 ms without use of SFC 126, 127 32 ms Yes 63; When using Alarm_S/SQ and Alarm_D/DQ 63 Yes Yes 8 8 8 16 54 byte
Protocols SIMATIC communication S7 routing Open IE communication ISO-on-TCP (RFC1006) Data length, max. Web server supported Isochronous mode Equidistance Number of DP masters with isochronous mode User data per isochronous slave, max. shortest clock pulse max. cycle communication functions / header PG/OP communication Number of connectable OPs with message processing Number of connectable OPs without message processing Data record routing Global data communication supported Number of GD loops, max. Number of GD packets, transmitter, max. Number of GD packets, receiver, max. Size of GD packets, max. Size of GD packet (of which consistent), max.	Yes Via CP 443-1 and loadable FB 1 452 bytes via CP 443-1 Adv. No Yes 3 244 byte 1 ms; 0.5 ms without use of SFC 126, 127 32 ms Yes 63; When using Alarm_S/SQ and Alarm_D/DQ 63 Yes Yes 8 8 8 16 54 byte

a Hear data pariah many	76 hyta
User data per job, max. User data per job (of which consistent), max.	76 byte
User data per job (of which consistent), max. S7 communication	1 variable
	Voc
• supported	Yes
as server as elient	Yes
• as client	Yes
User data per job, max. User data per job (of which consistent), may	64 kbyte
User data per job (of which consistent), max.	462 byte; 1 variable
S5 compatible communication	Vac. Via FC AC SEND and AC DECV may via 40 CD 442 4 or 442 5
• supported	Yes; Via FC AG_SEND and AG_RECV, max. via 10 CP 443-1 or 443-5
User data per job, max. User data per job (of which consistent), may	8 kbyte
User data per job (of which consistent), max. New hard simultaneous AC SENDAG RECV and an account of the second sec	240 byte
 Number of simultaneous AG-SEND/AG-RECV orders per CPU, max. 	24/24
Standard communication (FMS)	
• supported	Yes; Via CP and loadable FB
Number of connections	
overall	64
usable for PG communication	63
— reserved for PG communication	1
— adjustable for PG communication, max.	0
usable for OP communication	63
 reserved for OP communication 	1
— adjustable for OP communication, max.	0
usable for S7 basic communication	62
— reserved for S7 basic communication	0
 adjustable for S7 basic communication, max. 	0
usable for S7 communication	62
— 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	
Number of login stations for message functions, max.	63; Max. 63 with Alarm_S/SQ and Alarm_D/DQ (OPs); max. 8 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.	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 100 ms grid, max.with 500, 1000 ms grid, max.	1 10
-	
• with 500, 1000 ms grid, max.	
• with 500, 1000 ms grid, max. Test commissioning functions	10
with 500, 1000 ms grid, max. Test commissioning functions Status block	Yes; Up to 16 simultaneously
with 500, 1000 ms grid, max. Test commissioning functions Status block Single step	Yes; Up to 16 simultaneously Yes

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
	Yes
KC approval EAC (formerly Gost-R)	Yes
	res
Use in hazardous areas	ATEVILOR FURA HOTA CA
• ATEX	ATEX II 3G Ex nA IIC T4 Gc
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	0°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
— SCL — CFC	Yes Yes
— CFC	Yes
— CFC — GRAPH	Yes Yes
— CFC — GRAPH — HiGraph®	Yes Yes
— CFC — GRAPH — HiGraph® configuration / programming / number of simultaneously active — DPSYC_FR	Yes Yes Yes SFC / header
— CFC — GRAPH — HiGraph® configuration / programming / number of simultaneously active — DPSYC_FR — D_ACT_DP	Yes Yes Yes SFC / header 2; SFC 11; per interface 8; SFC 12; per interface
— CFC — GRAPH — HiGraph® configuration / programming / number of simultaneously active — DPSYC_FR — D_ACT_DP — RD_REC	Yes Yes Yes SFC / header 2; SFC 11; per interface
— CFC — GRAPH — HiGraph® configuration / programming / number of simultaneously active — DPSYC_FR — D_ACT_DP — RD_REC — WR_REC	Yes Yes Yes SFC / header 2; SFC 11; per interface 8; SFC 59; per interface 8; SFC 59; per interface
— CFC — GRAPH — HiGraph® configuration / programming / number of simultaneously active — DPSYC_FR — D_ACT_DP — RD_REC — WR_REC — WR_PARM	Yes Yes Yes SFC / header 2; SFC 11; per interface 8; SFC 12; per interface 8; SFC 59; per interface 8; SFC 58; per interface 8; SFC 55; per interface
— CFC — GRAPH — HiGraph® configuration / programming / number of simultaneously active — DPSYC_FR — D_ACT_DP — RD_REC — WR_REC — WR_PARM — PARM_MOD	Yes Yes Yes SFC / header 2; SFC 11; per interface 8; SFC 12; per interface 8; SFC 59; per interface 8; SFC 55; per interface 8; SFC 55; per interface 1; SFC 57; per interface
— CFC — GRAPH — HiGraph® configuration / programming / number of simultaneously active — DPSYC_FR — D_ACT_DP — RD_REC — WR_REC — WR_PARM — PARM_MOD — WR_DPARM	Yes Yes Yes SFC / header 2; SFC 11; per interface 8; SFC 59; per interface 8; SFC 59; per interface 8; SFC 55; per interface 1; SFC 57; per interface 2; SFC 56; per interface
— CFC — GRAPH — HiGraph® configuration / programming / number of simultaneously active — DPSYC_FR — D_ACT_DP — RD_REC — WR_REC — WR_PARM — PARM_MOD — WR_DPARM — DPNRM_DG	Yes Yes Yes SFC / header 2; SFC 11; per interface 8; SFC 59; per interface 8; SFC 59; per interface 8; SFC 55; per interface 1; SFC 57; per interface 1; SFC 57; per interface 2; SFC 56; per interface 8; SFC 13; per interface
CFC GRAPH HiGraph® configuration / programming / number of simultaneously active DPSYC_FR D_ACT_DP RD_REC WR_REC WR_PARM PARM_MOD WR_DPARM DPNRM_DG RDSYSST	Yes Yes Yes SFC / header 2; SFC 11; per interface 8; SFC 59; per interface 8; SFC 59; per interface 8; SFC 55; per interface 1; SFC 57; per interface 2; SFC 56; per interface 2; SFC 57; per interface 8; SFC 51
CFC GRAPH HiGraph® configuration / programming / number of simultaneously active DPSYC_FR D_ACT_DP RD_REC WR_REC WR_PARM PARM_MOD WR_DPARM DPNRM_DG RDSYSST DP_TOPOL	Yes Yes Yes SFC / header 2; SFC 11; per interface 8; SFC 59; per interface 8; SFC 59; per interface 8; SFC 55; per interface 8; SFC 56; per interface 1; SFC 57; per interface 2; SFC 56; per interface 8; SFC 13; per interface 8; SFC 13; per interface 8; SFC 51 1; SFC 103; per interface
— CFC — GRAPH — HiGraph® configuration / programming / number of simultaneously active — DPSYC_FR — D_ACT_DP — RD_REC — WR_REC — WR_PARM — PARM_MOD — WR_DPARM — DPNRM_DG — RDSYSST — DP_TOPOL configuration / programming / number of simultaneously active	Yes Yes Yes SFC / header 2; SFC 11; per interface 8; SFC 59; per interface 8; SFC 59; per interface 8; SFC 55; per interface 1; SFC 57; per interface 2; SFC 56; per interface 8; SFC 13; per interface 8; SFC 13; per interface 8; SFC 13; per interface 8; SFC 14; per interface 8; SFC 151 1; SFC 103; per interface 8; SFC 51
CFC GRAPH HiGraph® configuration / programming / number of simultaneously active DPSYC_FR D_ACT_DP RD_REC WR_REC WR_PARM PARM_MOD WR_DPARM DPNRM_DG RDSYSST DP_TOPOL	Yes Yes Yes SFC / header 2; SFC 11; per interface 8; SFC 59; per interface 8; SFC 59; per interface 8; SFC 55; per interface 8; SFC 56; per interface 1; SFC 57; per interface 2; SFC 56; per interface 8; SFC 13; per interface 8; SFC 13; per interface 8; SFC 51 1; SFC 103; per interface

• User program protection/password protection Block encryption

Yes

Yes; With S7 block Privacy

Width	50 mm
Height	290 mm
Denth	219 mm

900 g Weight, approx.

Classifications

	Version	Classification
eClass	14	27-24-22-07
eClass	12	27-24-22-07
eClass	9.1	27-24-22-07
eClass	9	27-24-22-07
eClass	8	27-24-22-07
eClass	7.1	27-24-22-07
eClass	6	27-24-22-07
ETIM	9	EC000236
ETIM	8	EC000236
ETIM	7	EC000236
IDEA	4	3565
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

For use in hazardous locations



Miscellaneous









For use in hazardous locations



<u>FM</u>





Type Examination Cer-tificate



Marine / Shipping









NK / Nippon Kaiji Kyokai



Marine / Shipping

Environment

CCS (China Classification Society)



last modified:

12/8/2024

