## **Data sheet**

6ES7416-3XS07-0AB0



SIMATIC S7-400, CPU 416-3, Central processing unit with: Work memory 16 MB, (8 MB code, 8 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 416-3
HW functional status	01
Firmware version	V7.0
Product function	
• Isochronous mode	Yes; For PROFIBUS only
Engineering with	
<ul> <li>Programming package</li> </ul>	STEP 7 V5.4 or higher with HSP 261
CiR - Configuration in RUN	
CiR synchronization time, basic load	100 ms
CiR synchronization time, time per I/O byte	10 µs
Supply voltage	
Rated value (DC)	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
Power loss, max.	6.5 W
Memory	
Type of memory	RAM
Work memory	
<ul><li>integrated</li></ul>	16 Mbyte
<ul><li>integrated (for program)</li></ul>	8 Mbyte
<ul><li>integrated (for data)</li></ul>	8 Mbyte
expandable	No
Load memory	
<ul><li>expandable FEPROM</li></ul>	Yes; with Memory Card (FLASH)
<ul><li>expandable FEPROM, max.</li></ul>	64 Mbyte
<ul><li>integrated RAM, max.</li></ul>	1 Mbyte
expandable RAM	Yes; with Memory Card (RAM)
expandable RAM, max.	64 Mbyte
Backup	
• present	Yes
<ul><li>with battery</li></ul>	Yes; all data
without battery	No
Battery	
Backup battery	

<ul> <li>Backup current, typ.</li> </ul>	180 μA; up to 40 °C
<ul> <li>Backup current, max.</li> </ul>	850 μΑ
Backup time, max.	Dealt with in the module data manual with the secondary conditions and the factors of influence
<ul> <li>Feeding of external backup voltage to CPU</li> </ul>	5 V DC to 15 V DC
CPU processing times	
for bit operations, typ.	12.5 ns
for word operations, typ.	12.5 ns
for fixed point arithmetic, typ.	12.5 ns
for floating point arithmetic, typ.	25 ns
CPU-blocks	
DB	
Number, max.	10 000; Number range: 1 to 16000
• Size, max.	64 kbyte
FB	
<ul><li>Number, max.</li></ul>	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
<ul> <li>Number of free cycle OBs</li> </ul>	1; OB 1
<ul> <li>Number of time alarm OBs</li> </ul>	8; OB 10-17
<ul> <li>Number of delay alarm OBs</li> </ul>	4; OB 20-23
<ul> <li>Number of cyclic interrupt OBs</li> </ul>	9; OB 30-38 (shortest cycle that can be set = 500 µs)
<ul> <li>Number of process alarm OBs</li> </ul>	8; OB 40-47
<ul> <li>Number of DPV1 alarm OBs</li> </ul>	3; OB 55-57
<ul> <li>Number of isochronous mode OBs</li> </ul>	4; OB 61-64
<ul> <li>Number of multicomputing OBs</li> </ul>	1; OB 60
<ul> <li>Number of background OBs</li> </ul>	1; OB 90
<ul> <li>Number of startup OBs</li> </ul>	3; OB 100-102
<ul> <li>Number of asynchronous error OBs</li> </ul>	9; OB 80-88
<ul> <li>Number of synchronous error OBs</li> </ul>	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
— preset	Z 0 to Z 7
Counting range	
— lower limit	0
— upper limit	999
IEC counter	
• present	Yes
<ul> <li>Type</li> </ul>	SFB
Number	Unlimited (limited only by RAM capacity)
S7 times	
Number	2 048
Retentivity	
— adjustable	Yes
— 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	- This is a familie of the second of the sec
Retentive data area (incl. timers, counters, flags), max.	Total working and load memory (with backup battery)
Flag	Total Working and load memory (with backap battery)
• 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	
<ul> <li>adjustable, max.</li> </ul>	32 kbyte
• preset	16 kbyte
Address area	
I/O address area	
<ul><li>Inputs</li></ul>	16 kbyte
Outputs	16 kbyte
Process image	
<ul> <li>Inputs, adjustable</li> </ul>	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	45
Number of subprocess images, max.  Digital changes.	15
Digital channels	131 072
<ul><li>Inputs</li><li>— of which central</li></ul>	131 072
Outputs	131 072
— of which central	131 072
Analog channels	101 012
• 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	95
Multicomputing	Yes; 4 CPUs max. (with UR1 or UR2)
Interface modules	
<ul> <li>Number of connectable IMs (total), max.</li> </ul>	6
<ul> <li>Number of connectable IM 460s, max.</li> </ul>	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
<ul> <li>Number of pluggable S5 modules (via adapter capsule in central device), max.</li> </ul>	6
Number of IO Controllers	
• integrated	0
• via CP	4; Max. 4 in the central controller; no mixed operation of different CP 443-1 types in PROFINET IO mode
Number of operable FMs and CPs (recommended)	
• FM	Limited by number of class and number of connections
	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
<ul><li>CP, PtP</li><li>PROFIBUS and Ethernet CPs</li></ul>	

• required clots	2
• required slots	2
Time of day	
Clock	
<ul> <li>Hardware clock (real-time)</li> </ul>	Yes
<ul> <li>retentive and synchronizable</li> </ul>	Yes
Resolution	1 ms
<ul> <li>Deviation per day (buffered), max.</li> </ul>	1.7 s; Power off
Deviation per day (unbuffered), max.	8.6 s; For power On
Operating hours counter	
<ul><li>Number</li></ul>	16
<ul> <li>Number/Number range</li> </ul>	0 to 15
<ul> <li>Range of values</li> </ul>	SFCs 2, 3 and 4: 0 to 32767 hours SFC 101: 0 to 2^31 - 1 hours
<ul> <li>Granularity</li> </ul>	1 h
retentive	Yes
Clock synchronization	
<ul><li>supported</li></ul>	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
<ul> <li>on Ethernet via NTP</li> </ul>	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	
Interface type	MPI/PROFIBUS DP
Isolated	Yes
Interface types	
• RS 485	Yes
<ul> <li>Output current of the interface, max.</li> </ul>	150 mA
Protocols	
• MPI	Yes
PROFIBUS DP master	Yes
PROFIBUS DP device	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
<ul> <li>Global data communication</li> </ul>	Yes
<ul> <li>S7 basic communication</li> </ul>	Yes
— S7 communication	Yes
<ul> <li>S7 communication, as client</li> </ul>	Yes
<ul> <li>S7 communication, as server</li> </ul>	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
max. number of DP devices	32
Services	
— PG/OP communication	Yes
— Routing	Yes; S7 routing
— Nouting	

Clabal data communication	No
— Global data communication	Yes
— S7 basic communication	Yes
— S7 communication	
— S7 communication, as client	Yes
— S7 communication, as server	Yes
— Equidistance	Yes
— Isochronous mode	Yes
— SYNC/FREEZE	Yes
— activation/deactivation of DP devices	Yes
<ul> <li>Direct data exchange (slave-to-slave communication)</li> </ul>	Yes
— DPV1	Yes
Address area	
— Inputs, max.	2 kbyte
— Outputs, max.	2 kbyte
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
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.	32
<ul> <li>Transmission rate, max.</li> </ul>	12 Mbit/s
<ul> <li>max. number of DP devices</li> </ul>	125
Services	
— PG/OP communication	Yes
— Routing	Yes; S7 routing
<ul> <li>Global data communication</li> </ul>	No
<ul> <li>S7 basic communication</li> </ul>	Yes
— S7 communication	Yes
<ul> <li>S7 communication, as client</li> </ul>	Yes
— S7 communication, as server	Yes
— Equidistance	Yes
— Isochronous mode	Yes
— SYNC/FREEZE	Yes

and the state of the state of DD devices	V
— activation/deactivation of DP devices	Yes
<ul> <li>— Direct data exchange (slave-to-slave communication)</li> </ul>	Yes
— DPV1	Yes
Address area	165
	0 khyta
— Inputs, max.	8 kbyte
— Outputs, max.	8 kbyte
User data per DP slave	····
user data per DP device, max.	244 byte
— Inputs, max.	244 byte
— Outputs, max.	244 byte
— Slots, max.	244
— per slot, max.	128 byte
PROFIBUS DP slave	
<ul> <li>Number of connections</li> </ul>	32
GSD file	http://support.automation.siemens.com/WW/view/en/113652
<ul> <li>Transmission rate, max.</li> </ul>	12 Mbit/s
<ul> <li>Address area, max.</li> </ul>	32
<ul> <li>User data per address area, max.</li> </ul>	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
Interface types	
• RS 485	Yes
Output current of the interface, max.	150 mA
Protocols	100 111/1
• MPI	No
PROFIBUS DP master	Yes
PROFIBUS DP device	Yes
PROFIBUS DP device	Tes
	22
Number of connections, max.	32
Transmission rate, max.	12 Mbit/s
max. number of DP devices	125
Services	
— PG/OP communication	Yes
Day the se	Yes; S7 routing
— Routing	
— Global data communication	No
<ul><li>— Global data communication</li><li>— S7 basic communication</li></ul>	No Yes
<ul><li>Global data communication</li><li>S7 basic communication</li><li>S7 communication</li></ul>	No
<ul><li>— Global data communication</li><li>— S7 basic communication</li></ul>	No Yes
<ul><li>Global data communication</li><li>S7 basic communication</li><li>S7 communication</li></ul>	No Yes Yes
<ul> <li>Global data communication</li> <li>S7 basic communication</li> <li>S7 communication</li> <li>S7 communication, as client</li> </ul>	No Yes Yes Yes
<ul> <li>Global data communication</li> <li>S7 basic communication</li> <li>S7 communication</li> <li>S7 communication, as client</li> <li>S7 communication, as server</li> </ul>	No Yes Yes Yes Yes
<ul> <li>Global data communication</li> <li>S7 basic communication</li> <li>S7 communication</li> <li>S7 communication, as client</li> <li>S7 communication, as server</li> <li>Equidistance</li> </ul>	No Yes Yes Yes Yes Yes
<ul> <li>Global data communication</li> <li>S7 basic communication</li> <li>S7 communication</li> <li>S7 communication, as client</li> <li>S7 communication, as server</li> <li>Equidistance</li> <li>Isochronous mode</li> </ul>	No Yes Yes Yes Yes Yes Yes Yes
<ul> <li>Global data communication</li> <li>S7 basic communication</li> <li>S7 communication</li> <li>S7 communication, as client</li> <li>S7 communication, as server</li> <li>Equidistance</li> <li>Isochronous mode</li> <li>SYNC/FREEZE</li> </ul>	No Yes Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>Global data communication</li> <li>S7 basic communication</li> <li>S7 communication</li> <li>S7 communication, as client</li> <li>S7 communication, as server</li> <li>Equidistance</li> <li>Isochronous mode</li> <li>SYNC/FREEZE</li> <li>activation/deactivation of DP devices</li> <li>Direct data exchange (slave-to-slave)</li> </ul>	No Yes
<ul> <li>Global data communication</li> <li>S7 basic communication</li> <li>S7 communication</li> <li>S7 communication, as client</li> <li>S7 communication, as server</li> <li>Equidistance</li> <li>Isochronous mode</li> <li>SYNC/FREEZE</li> <li>activation/deactivation of DP devices</li> <li>Direct data exchange (slave-to-slave communication)</li> </ul>	No Yes
<ul> <li>Global data communication</li> <li>S7 basic communication</li> <li>S7 communication</li> <li>S7 communication, as client</li> <li>S7 communication, as server</li> <li>Equidistance</li> <li>Isochronous mode</li> <li>SYNC/FREEZE</li> <li>activation/deactivation of DP devices</li> <li>Direct data exchange (slave-to-slave communication)</li> <li>DPV0</li> </ul>	No Yes
<ul> <li>Global data communication</li> <li>S7 basic communication</li> <li>S7 communication</li> <li>S7 communication, as client</li> <li>S7 communication, as server</li> <li>Equidistance</li> <li>Isochronous mode</li> <li>SYNC/FREEZE</li> <li>activation/deactivation of DP devices</li> <li>Direct data exchange (slave-to-slave communication)</li> <li>DPV0</li> <li>DPV1</li> </ul>	No Yes
- Global data communication - S7 basic communication - S7 communication - S7 communication, as client - S7 communication, as server - Equidistance - Isochronous mode - SYNC/FREEZE - activation/deactivation of DP devices - Direct data exchange (slave-to-slave communication) - DPV0 - DPV1  Address area	No Yes
— Global data communication  — S7 basic communication  — S7 communication, as client  — S7 communication, as server  — Equidistance  — Isochronous mode  — SYNC/FREEZE  — activation/deactivation of DP devices  — Direct data exchange (slave-to-slave communication)  — DPV0  — DPV1  Address area  — Inputs, max.	No Yes

— user data per DP device, max.	244 byte
— Inputs, max.	244 byte
— Outputs, max.	244 byte
— Slots, max.	244
— per slot, max.	128 byte
PROFIBUS DP slave	
<ul> <li>number of possible connections / at the 3rd interface / as DP slave</li> </ul>	32
GSD file	http://support.automation.siemens.com/WW/view/en/113652
transfer rate / at the 3rd interface / as DP slave /	12 Mbit/s
maximum	12 IVIDIUS
automatic baud rate search	No
<ul> <li>Address area, max.</li> </ul>	32
• data volume / at the 3rd interface / as DP slave / as user	32 byte
data per address range / maximum  — data volume / at the 3rd interface / as DP slave / as	32 byte
consistent reference data per address range / maximum	
Services	
— PG/OP communication	Yes
— Routing	Yes; with interface active
Global data communication	No
— S7 basic communication	No
<ul><li>— S7 communication</li></ul>	Yes
<ul> <li>S7 communication, as client</li> </ul>	Yes
— S7 communication, as server	Yes
<ul> <li>Direct data exchange (slave-to-slave communication)</li> </ul>	No
— DPV1	No
Transfer memory	
— Inputs	244 byte
— Outputs	244 byte
Protocols	,
SIMATIC communication	
S7 routing	Yes
- Or rouning	
Open IE communication	
	Via CP 443-1 and loadable FB
Open IE communication	Via CP 443-1 and loadable FB 1 452 bytes via CP 443-1 Adv.
Open IE communication  • ISO-on-TCP (RFC1006)	
Open IE communication  • ISO-on-TCP (RFC1006)  — Data length, max.	
Open IE communication  • ISO-on-TCP (RFC1006)  — Data length, max.  Web server	1 452 bytes via CP 443-1 Adv.
Open IE communication  ISO-on-TCP (RFC1006)  — Data length, max.  Web server  supported	1 452 bytes via CP 443-1 Adv.
Open IE communication  ISO-on-TCP (RFC1006)  — Data length, max.  Web server  supported  Isochronous mode	1 452 bytes via CP 443-1 Adv. No
Open IE communication  ISO-on-TCP (RFC1006)  — Data length, max.  Web server  supported  Isochronous mode  Equidistance	1 452 bytes via CP 443-1 Adv.  No  Yes
Open IE communication  ISO-on-TCP (RFC1006)  — Data length, max.  Web server  supported  Isochronous mode  Equidistance  Number of DP masters with isochronous mode	1 452 bytes via CP 443-1 Adv.  No  Yes 3
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.	1 452 bytes via CP 443-1 Adv.  No  Yes 3 244 byte
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	1 452 bytes via CP 443-1 Adv.  No  Yes 3 244 byte 1 ms; 0.5 ms without use of SFC 126, 127
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	1 452 bytes via CP 443-1 Adv.  No  Yes 3 244 byte 1 ms; 0.5 ms without use of SFC 126, 127
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	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
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	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
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	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 95
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 with message processing	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 95 95; When using Alarm_S/SQ and Alarm_D/DQ
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 with message processing  Data record routing	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 95 95; When using Alarm_S/SQ and Alarm_D/DQ
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 with message processing  Data record routing  Global data communication	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 95 95; When using Alarm_S/SQ and Alarm_D/DQ Yes
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 with message processing  Data record routing  Global data communication  supported	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 95 95; When using Alarm_S/SQ and Alarm_D/DQ Yes  Yes
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 with message processing  Data record routing  Global data communication  supported  Number of GD loops, max.	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 95 95; When using Alarm_S/SQ and Alarm_D/DQ Yes  Yes 16
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 with message processing  Data record routing  Global data communication  supported  Number of GD loops, max.  Number of GD packets, transmitter, max.	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 95 95; When using Alarm_S/SQ and Alarm_D/DQ Yes  Yes 16 16
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 with message processing  Number of connectable OPs with message processing  Data record routing  Global data communication  supported  Number of GD loops, max.  Number of GD packets, transmitter, max.	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 95 95; When using Alarm_S/SQ and Alarm_D/DQ Yes  Yes 16 16 16 32
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 with message processing  Number of connectable OPs with message processing  Data record routing  Global data communication  supported  Number of GD loops, max.  Number of GD packets, transmitter, max.  Number of GD packets, receiver, max.  Size of GD packets, max.	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 95 95; When using Alarm_S/SQ and Alarm_D/DQ Yes  Yes 16 16 32 54 byte
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 with message processing  Number of connectable OPs with message processing  Data record routing  Global data communication  supported  Number of GD loops, max.  Number of GD packets, transmitter, max.  Number of GD packets, receiver, max.  Size of GD packets, max.	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 95 95; When using Alarm_S/SQ and Alarm_D/DQ Yes  Yes 16 16 32 54 byte
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 with 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 packet (of which consistent), max.	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 95 95; When using Alarm_S/SQ and Alarm_D/DQ Yes  Yes 16 16 16 32 54 byte 1 variable

C7 communication	
S7 communication	Van
<ul><li>supported</li></ul>	Yes
as server	Yes
• as client	Yes
<ul> <li>User data per job, max.</li> </ul>	64 kbyte
User data per job (of which consistent), max.	462 byte; 1 variable
S5 compatible communication	
<ul><li>supported</li></ul>	Yes; Via FC AG_SEND and AG_RECV, max. via 10 CP 443-1 or 443-5
<ul> <li>User data per job, max.</li> </ul>	8 kbyte
<ul> <li>User data per job (of which consistent), max.</li> </ul>	240 byte
<ul> <li>Number of simultaneous AG-SEND/AG-RECV orders per</li> </ul>	64/64
CPU, max.	
Standard communication (FMS)	
supported	Yes; Via CP and loadable FB
Number of connections	
• overall	96
usable for PG communication	95
<ul> <li>reserved for PG communication</li> </ul>	1
<ul> <li>adjustable for PG communication, max.</li> </ul>	0
<ul> <li>usable for OP communication</li> </ul>	95
<ul> <li>reserved for OP communication</li> </ul>	1
<ul> <li>adjustable for OP communication, max.</li> </ul>	0
<ul> <li>usable for S7 basic communication</li> </ul>	94
<ul> <li>reserved for S7 basic communication</li> </ul>	0
<ul> <li>adjustable for S7 basic communication, max.</li> </ul>	0
usable for S7 communication	94
— reserved for S7 communication	0
<ul> <li>adjustable for S7 communication, max.</li> </ul>	0
usable for routing	47
reserved for routing	0
adjustable for routing, max.	0
S7 message functions	
Number of login stations for message functions, max.	95; Max. 95 with Alarm_S/SQ and Alarm_D/DQ (OPs); max. 16 with Alarm,
	Alarm_8, Alarm_8P, Notify and Notify_8 (e.g. WinCC)
Symbol-related messages	Yes
SCAN procedure	Yes
Program alarms	Yes
Process diagnostic messages	Yes
simultaneously active Alarm-S blocks, max.	4.000.01 1/4 1/4 1/4 0/00/14 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4
omandioddiy dolive / liaim-o blooks, max.	1 000; Simultaneously active alarm_S/SQ blocks or alarm_D/DQ blocks
Alarm 8-blocks	1 000; Simultaneously active alarm_S/SQ blocks or alarm_D/DQ blocks  Yes
<u> </u>	
Alarm 8-blocks  • Number of instances for alarm 8 and S7 communication blocks, max.	Yes 4 000
Alarm 8-blocks  Number of instances for alarm 8 and S7 communication blocks, max.  preset, max.	Yes 4 000 600
Alarm 8-blocks  • Number of instances for alarm 8 and S7 communication blocks, max.	Yes 4 000
Alarm 8-blocks  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 37	Yes 4 000 600
Alarm 8-blocks  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 37 AR_SEND)	Yes 4 000 600 Yes
Alarm 8-blocks  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 37 AR_SEND)  Number of messages	Yes 4 000 600 Yes 32
Alarm 8-blocks  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 37 AR_SEND)  Number of messages  overall, max.	Yes 4 000 600 Yes 32
Alarm 8-blocks  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 37 AR_SEND)  Number of messages  overall, max.  in 100 ms grid, max.	Yes 4 000 600 Yes 32 1 024 128
Alarm 8-blocks  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 37 AR_SEND)  Number of messages  overall, max.  in 100 ms grid, max.  in 500 ms grid, max.	Yes 4 000 600 Yes 32 1 024 128 512
Alarm 8-blocks  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 37 AR_SEND)  Number of messages  overall, max.  in 100 ms grid, max.  in 500 ms grid, max.  in 1000 ms grid, max.	Yes 4 000 600 Yes 32 1 024 128
Alarm 8-blocks  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 37 AR_SEND)  Number of messages  overall, max.  in 100 ms grid, max.  in 500 ms grid, max.  in 1000 ms grid, max.  Number of additional values	Yes 4 000 600 Yes 32  1 024 128 512 1 024
Alarm 8-blocks  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 37 AR_SEND)  Number of messages  overall, max.  in 100 ms grid, max.  in 500 ms grid, max.  in 1000 ms grid, max.  with 1000 ms grid, max.  Number of additional values  with 100 ms grid, max.	Yes 4 000 600 Yes 32  1 024 128 512 1 024
Alarm 8-blocks  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 37 AR_SEND)  Number of messages  overall, max.  in 100 ms grid, max.  in 500 ms grid, max.  in 1000 ms grid, max.  with 100 ms grid, max.  with 500, 1000 ms grid, max.  with 500, 1000 ms grid, max.	Yes 4 000 600 Yes 32  1 024 128 512 1 024
Alarm 8-blocks  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 37 AR_SEND)  Number of messages  overall, max.  in 100 ms grid, max.  in 500 ms grid, max.  in 1000 ms grid, max.  with 1000 ms grid, max.  Number of additional values  with 100 ms grid, max.	Yes 4 000 600 Yes 32  1 024 128 512 1 024
Alarm 8-blocks  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 37 AR_SEND)  Number of messages  overall, max.  in 100 ms grid, max.  in 500 ms grid, max.  in 1000 ms grid, max.  with 100 ms grid, max.  with 500, 1000 ms grid, max.  with 500, 1000 ms grid, max.	Yes 4 000 600 Yes 32  1 024 128 512 1 024
Alarm 8-blocks  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 37 AR_SEND)  Number of messages  overall, max.  in 100 ms grid, max.  in 500 ms grid, max.  in 1000 ms grid, max.  with 100 ms grid, max.  Number of additional values  with 100 ms grid, max.  with 500, 1000 ms grid, max.  with 500, 1000 ms grid, max.	Yes 4 000 600 Yes 32  1 024 128 512 1 024
Alarm 8-blocks  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 37 AR_SEND)  Number of messages  overall, max.  in 100 ms grid, max.  in 1000 ms grid, max.  in 1000 ms grid, max.  with 100 ms grid, max.  with 100 ms grid, max.  with 500, 1000 ms grid, max.  Status block	Yes 4 000 600 Yes 32  1 024 128 512 1 024  1 100  Yes; Up to 16 simultaneously
Alarm 8-blocks  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 37 AR_SEND)  Number of messages  overall, max.  in 100 ms grid, max.  in 1000 ms grid, max.  in 1000 ms grid, max.  with 100 ms grid, max.  with 100 ms grid, max.  with 500, 1000 ms grid, max.  Test commissioning functions  Status block Single step	Yes 4 000 600 Yes 32  1 024 128 512 1 024  1 100  Yes; Up to 16 simultaneously Yes
Alarm 8-blocks  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 37 AR_SEND)  Number of messages  overall, max.  in 100 ms grid, max.  in 500 ms grid, max.  in 1000 ms grid, max.  with 100 ms grid, max.  with 500, 1000 ms grid, max.  with 500, 1000 ms grid, max.  Test commissioning functions  Status block  Single step  Number of breakpoints	Yes 4 000 600 Yes 32  1 024 128 512 1 024  1 100  Yes; Up to 16 simultaneously Yes
Alarm 8-blocks  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 37 AR_SEND)  Number of messages  overall, max.  in 100 ms grid, max.  in 500 ms grid, max.  in 1000 ms grid, max.  with 100 ms grid, max.  with 100 ms grid, max.  Test commissioning functions  Status block  Single step  Number of breakpoints  Status/control	Yes 4 000 600 Yes 32  1 024 128 512 1 024  1 10  Yes; Up to 16 simultaneously Yes 16
Alarm 8-blocks  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 37 AR_SEND)  Number of messages  overall, max.  in 100 ms grid, max.  in 500 ms grid, max.  in 1000 ms grid, max.  with 100 ms grid, max.  Number of additional values  with 100 ms grid, max.  with 500, 1000 ms grid, max.  Test commissioning functions  Status block  Single step  Number of breakpoints  Status/control  Status/control variable	Yes 4 000 600 Yes 32  1 024 128 512 1 024  1 100  Yes; Up to 16 simultaneously Yes 16  Yes; Up to 16 variable tables

Forcing	
<ul><li>Forcing</li></ul>	Yes
<ul> <li>Forcing, variables</li> </ul>	Inputs, outputs, bit memories, peripheral inputs, peripheral outputs
Number of variables, max.	512
Diagnostic buffer	
• present	Yes
<ul> <li>Number of entries, max.</li> </ul>	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	ALLAN OF EXTRAINED 14 OF
Ambient temperature during operation	0.00
• min.	0 °C
• max.	60 °C
configuration / header	
Configuration software	
• STEP 7	Yes
configuration / programming / header	
Command set	see instruction list
Nesting levels	7
<ul> <li>Access to consistent data in process image</li> </ul>	Yes
<ul> <li>System functions (SFC)</li> </ul>	see instruction list
System function blocks (SFB)	see instruction list
	see instruction list
System function blocks (SFB)	see instruction list Yes
System function blocks (SFB)  Programming language	
System function blocks (SFB)  Programming language  — LAD	Yes
System function blocks (SFB)  Programming language  — LAD  — FBD	Yes Yes
System function blocks (SFB)  Programming language      LAD      FBD      STL	Yes Yes Yes
System function blocks (SFB)  Programming language  — LAD  — FBD  — STL  — SCL	Yes Yes Yes
System function blocks (SFB)  Programming language  — LAD  — FBD  — STL  — SCL — CFC	Yes Yes Yes Yes Yes Yes
System function blocks (SFB)  Programming language  — LAD  — FBD  — STL  — SCL  — CFC  — GRAPH	Yes Yes Yes Yes Yes Yes Yes Yes
System function blocks (SFB)  Programming language  — LAD  — FBD  — STL  — SCL  — CFC  — GRAPH  — HiGraph®	Yes Yes Yes Yes Yes Yes Yes Yes
System function blocks (SFB)  Programming language  — LAD  — FBD  — STL  — SCL  — CFC  — GRAPH  — HiGraph®  configuration / programming / number of simultaneously active	Yes
System function blocks (SFB)  Programming language  — LAD  — FBD  — STL  — SCL  — CFC  — GRAPH  — HiGraph®  configuration / programming / number of simultaneously active  — DPSYC_FR	Yes
System function blocks (SFB)  Programming language  — LAD  — FBD  — STL  — SCL  — CFC  — GRAPH  — HiGraph®  configuration / programming / number of simultaneously active  — DPSYC_FR  — D_ACT_DP	Yes
System function blocks (SFB)  Programming language  — LAD  — FBD  — STL  — SCL  — CFC  — GRAPH  — HiGraph®  configuration / programming / number of simultaneously active  — DPSYC_FR  — D_ACT_DP  — RD_REC	Yes
System function blocks (SFB)  Programming language  — LAD  — FBD  — STL  — SCL  — CFC  — GRAPH  — HiGraph®  configuration / programming / number of simultaneously active  — DPSYC_FR  — D_ACT_DP  — RD_REC  — WR_REC	Yes
System function blocks (SFB)  Programming language  — LAD  — FBD  — STL  — SCL  — CFC  — GRAPH  — HiGraph®  configuration / programming / number of simultaneously active  — DPSYC_FR  — D_ACT_DP  — RD_REC  — WR_PARM  — PARM_MOD	Yes
System function blocks (SFB)  Programming language  — LAD  — FBD  — STL  — SCL  — CFC  — GRAPH  — HiGraph®  configuration / programming / number of simultaneously active  — DPSYC_FR  — D_ACT_DP  — RD_REC  — WR_REC  — WR_PARM	Yes
System function blocks (SFB)  Programming language  — LAD  — FBD  — STL  — SCL  — 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 Yes Yes Yes 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
● System function blocks (SFB)  Programming language  — LAD  — FBD  — STL  — SCL  — 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 Yes Yes Yes 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 57; 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
● System function blocks (SFB)  Programming language  — LAD  — FBD  — STL  — SCL  — 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 Yes Yes Yes Yes Yes Yes SFC / header 2; SFC 11; per interface 8; SFC 59; per interface 8; SFC 58; per interface 8; SFC 57; per interface 1; SFC 57; per interface 2; SFC 56; per interface 3; SFC 57; per interface 4; SFC 57; per interface 5; SFC 57; per interface 6; SFC 57; per interface 7; SFC 57; per interface 8; SFC 57; per interface 8; SFC 51 1; SFC 103; per interface
System function blocks (SFB)  Programming language  — LAD  — FBD  — STL  — SCL  — 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 Yes Yes Yes Yes Yes SFC / header 2; SFC 11; per interface 8; SFC 59; per interface 8; SFC 58; per interface 8; SFC 55; per interface 1; SFC 57; per interface 2; SFC 13; per interface 8; SFC 103; per interface 8; SFC 51 1; SFC 103; per interface
System function blocks (SFB)  Programming language  — LAD  — FBD  — STL  — SCL  — 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  — RDREC	Yes Yes Yes Yes Yes Yes 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 8; SFC 51 1; SFC 103; per interface 8; SFB / header 8; SFB 52; per interface, but not more than 32 across all external interfaces
System function blocks (SFB)  Programming language  — LAD  — FBD  — STL  — SCL  — 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  — RDREC  — WR_BEC  — WR_DPARM  — DPNRM_DG  — RDSYSST  — DP_TOPOL  configuration / programming / number of simultaneously active  — RDREC  — WRREC	Yes Yes Yes Yes Yes Yes Yes Yes SFC / header 2; SFC 11; per interface 8; SFC 59; per interface 8; SFC 58; per interface 8; SFC 55; per interface 1; SFC 57; per interface 2; SFC 13; per interface 8; SFC 103; per interface 8; SFC 51 1; SFC 103; per interface
System function blocks (SFB)  Programming language  — LAD  — FBD  — STL  — SCL  — 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  — RDREC  — WR_REC  — WR_DPARM  — PARM_MOD  — WR_DPARM  — DPNRM_DG  — RDSYSST  — DP_TOPOL  configuration / programming / number of simultaneously active  — RDREC  — WRREC	Yes
System function blocks (SFB)  Programming language  — LAD  — FBD  — STL  — SCL  — 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  — RDREC  — WR_BEC  — WR_DPARM  — DPNRM_DG  — RDSYSST  — DP_TOPOL  configuration / programming / number of simultaneously active  — RDREC  — WRREC	Yes Yes Yes Yes Yes Yes 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 8; SFC 51 1; SFC 103; per interface 8; SFB / header 8; SFB 52; per interface, but not more than 32 across all external interfaces

Dimensions	
Width	50 mm
Height	290 mm
Depth	219 mm
Weights	
Weight, approx.	900 g

last modified: 4/25/2024 🖸