## SIEMENS

## Data sheet

## 6ES7412-1XJ05-0AB0



\*\*\*\*\*\*\*\*\* Replacement part \*\*\*\*\*\*\*\* SIMATIC S7-400, CPU 412-1 Central processing unit with: work memory 288 KB, (144 KB code, 144 KB of data), Interface MPI/DP 12 Mbit/s,

General information	
Product type designation	CPU 412-1
HW functional status	03
Firmware version	V5.3
Product function	
Isochronous mode	Yes; For PROFIBUS only
Engineering with	
<ul> <li>Programming package</li> </ul>	STEP 7 V5.3 SP2 or higher with HW update
CiR - Configuration in RUN	
CiR synchronization time, basic load	100 ms
CiR synchronization time, time per I/O byte	30 µs
Supply voltage	
Rated value (DC)	Power supply via system power supply
Input current	
from backplane bus 5 V DC, typ.	0.5 A
from backplane bus 5 V DC, max.	0.6 A
from backplane bus 24 V DC, max.	150 mA; 150 mA per DP interface
from interface 5 V DC, max.	90 mA
Power loss	
Power loss, typ.	2.5 W
Memory	
Type of memory	RAM
Work memory	
integrated	288 kbyte
<ul> <li>integrated (for program)</li> </ul>	144 kbyte
<ul> <li>integrated (for data)</li> </ul>	144 kbyte
• expandable	No
Load memory	
expandable FEPROM	Yes; with Memory Card (FLASH)
<ul> <li>expandable FEPROM, max.</li> </ul>	64 Mbyte
<ul> <li>integrated RAM, max.</li> </ul>	512 kbyte
• expandable RAM	Yes; with Memory Card (RAM)
• expandable RAM, max.	64 Mbyte
Backup	
present	Yes
with battery	Yes; all data
without battery	No
Battery	
Backup battery	
<ul> <li>Backup current, typ.</li> </ul>	125 μA; up to 40 °C

Backup current, max.	300 µA
Backup time, max.	See reference manual, module data, Chapter 3.3
Feeding of external backup voltage to CPU	5 V DC to 15 V DC
CPU processing times	
for bit operations, typ.	75 ns
for word operations, typ.	75 ns
for fixed point arithmetic, typ.	75 ns
for floating point arithmetic, typ.	225 ns
CPU-blocks	
DB	
Number, max.	1 500; Number range: 1 to 16000
• Size, max.	64 kbyte
FB	
• Number, max.	750; Number range: 0 to 7999
• Size, max.	64 kbyte
FC	
• Number, max.	750; Number range: 0 to 7999
• Size, max.	64 kbyte
OB	
• Number, max.	see instruction list
• Size, max.	64 kbyte
Number of free cycle OBs	1; OB 1
Number of time alarm OBs	2; OB 10, 11
Number of delay alarm OBs	2; OB 20, 21
Number of cyclic interrupt OBs	2; OB 32, 35 (shortest cycle that can be set = 500 $\mu$ s)
Number of process alarm OBs	2; OB 40, 41
Number of DPV1 alarm OBs	3; OB 55-57
Number of isochronous mode OBs	2; OB 61-62
Number of multicomputing OBs	1; OB 60
Number of background OBs	1; OB 90
Number of startup OBs	3; OB 100-102
Number of asynchronous error OBs	9; OB 80-88
Number of synchronous error OBs	2; OB 121, 122
Nesting depth	24
per priority class	24
additional within an error OB	1
Counters, timers and their retentivity	
S7 counter • Number	2 048
Retentivity	2 040
· · · · · · · · · · · · · · · · · · ·	Yes
— adjustable	Z 0 to Z 7
— preset Counting range	
— lower limit	0
— upper limit	999
IEC counter	
• present	Yes
• Type	SFB
Number	
Number S7 times	Unlimited (limited only by RAM capacity)
S7 times	
S7 times • Number	2 048
S7 times • Number Retentivity	2 048
S7 times • Number Retentivity — adjustable	2 048 Yes
S7 times • Number Retentivity — adjustable — preset	2 048
S7 times • Number Retentivity — adjustable — preset Time range	2 048 Yes No times retentive
S7 times • Number Retentivity — adjustable — preset Time range — lower limit	2 048 Yes No times retentive 10 ms
S7 times • Number Retentivity adjustable preset Time range lower limit upper limit	2 048 Yes No times retentive
S7 times • Number Retentivity — adjustable — preset Time range — lower limit — upper limit IEC timer	2 048 Yes No times retentive 10 ms 9 990 s
S7 times • Number Retentivity — adjustable — preset Time range — lower limit — upper limit	2 048 Yes 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.	4 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.	8 kbyte
• preset	4 kbyte
Address area	
I/O address area	
	4 khuto
Inputs	4 kbyte
Outputs	4 kbyte
Process image	
Inputs, adjustable	4 kbyte
Outputs, adjustable	4 kbyte
Inputs, default	128 byte
Outputs, default	128 byte
consistent data, max.	244 byte
Access to consistent data in process image	Yes
Subprocess images	
<ul> <li>Number of subprocess images, max.</li> </ul>	15
Digital channels	
Inputs	32 768
— of which central	32 768
Outputs	32 768
— of which central	32 768
Analog channels	
Inputs	2 048
— of which central	2 048
Outputs	2 048
— of which central	2 048
Hardware configuration	
Integrated power supply	No
Number of expansion units, max.	21
connectable OPs	31
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	1
• via CP	10; CP 443-5 Extended
● via IM 467	4
Mixed mode IM + CP permitted	No; IM 467 not suitable for use with CP 443-5 Ext. and CP 443-1 EX4x, EX20,
• via interface module	GX20 (in PROFINET IO mode)
<ul> <li>via interface module</li> <li>Number of pluggable S5 modules (via adapter capsule in</li> </ul>	0 6
central device), max.	
Number of IO Controllers	
• integrated	0
• via CP	4; No mixed operation of CP443-1 EX40 and CP443-1 EX 41/EX20/GX20, max. 4 in central controller
Number of operable FMs and CPs (recommended)	
• FM	Limited by number of slots and number of connections
• CP, PtP	CP 440: Limited by number of slots; CP 441: Limited by number of slots and number of connections
<ul> <li>PROFIBUS and Ethernet CPs</li> </ul>	14; Of which 10 CPs max. or IMs as DP master, 4 PROFINET controller

Slots	
required slots	1
Time of day	
Clock	
Hardware clock (real-time)	Yes
retentive and synchronizable	Yes
Resolution	1 ms
Deviation per day (buffered), max.	1.7 s; Power off
Deviation per day (unbuffered), max.	8.6 s; For power On
Operating hours counter	
Number	16
Number /Number range	0 to 15
Range of values	SFCs 2, 3 and 4: 0 to 32767 hours SFC 101: 0 to 2^31 - 1 hours
Granularity	1h
retentive	Yes
Clock synchronization	
• 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	No
Time difference in system when synchronizing via	
• MPI, max.	200 ms
Interfaces	
Interfaces/bus type	1 x MPI/PROFIBUS DP
Number of RS 485 interfaces	1; Combined MPI / PROFIBUS DP
Optical interface	No
1. Interface	
1. Interface Interface type	MPI/PROFIBUS DP
1. Interface Interface type Isolated	
1. Interface Interface type Isolated Interface types	MPI/PROFIBUS DP Yes
1. Interface         Interface type         Isolated         Interface types         • RS 485	MPI/PROFIBUS DP Yes Yes
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— Global data communication	No
— S7 basic communication	Yes
— S7 communication	Yes
- S7 communication, as client	Yes
<ul> <li>— S7 communication, as server</li> </ul>	Yes
— Equidistance	Yes
<ul> <li>— Isochronous mode</li> </ul>	Yes
- SYNC/FREEZE	Yes
<ul> <li>activation/deactivation of DP devices</li> </ul>	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
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
<ul> <li>— S7 communication, as client</li> </ul>	Yes
— S7 communication, as server	Yes
— Direct data exchange (slave-to-slave	No
communication)	NL
— DPV1	No
Transfer memory	
— Inputs	244 byte
— Outputs	244 byte
Protocols	
Open IE communication	
ISO-on-TCP (RFC1006)	Via CP 443-1 Adv. and loadable FB
— Data length, max.	1 452 bytes via CP 443-1 Adv.
Web server	
supported	No
Isochronous mode	
Equidistance	Yes
Number of DP masters with isochronous mode	1
User data per isochronous slave, max.	244 byte
shortest clock pulse	1.5 ms; 0.5 ms without use of SFC 126, 127
max. cycle	32 ms
communication functions / header	
PG/OP communication	Yes
Number of connectable OPs with message processing	31; When using Alarm_S/SQ and Alarm_D/DQ
Number of connectable OPs without message processing	31
Data record routing	Yes
	100
Global data communication	

supported	Yes
<ul> <li>Number of GD loops, max.</li> </ul>	8
<ul> <li>Number of GD packets, transmitter, max.</li> </ul>	8
<ul> <li>Number of GD packets, receiver, max.</li> </ul>	16
<ul> <li>Size of GD packets, max.</li> </ul>	54 byte
<ul> <li>Size of GD packet (of which consistent), max.</li> </ul>	1 variable
S7 basic communication	
<ul> <li>supported</li> </ul>	Yes
<ul> <li>User data per job, max.</li> </ul>	76 byte
<ul> <li>User data per job (of which consistent), max.</li> </ul>	1 variable
S7 communication	
supported	Yes
• as server	Yes
• as client	Yes
• User data per job, max.	64 kbyte
• User data per job (of which consistent), max.	462 byte
S5 compatible communication	
• supported	Yes; Via FC AG SEND and AG RECV, max. via 10 CP 443-1 or 443-5
User data per job, max.	8 kbyte
<ul> <li>User data per job (of which consistent), max.</li> </ul>	240 byte
	24/0 byte 24/24
<ul> <li>Number of simultaneous AG-SEND/AG-RECV orders per CPU, max.</li> </ul>	
Standard communication (FMS)	
supported	Yes; Via CP and loadable FB
Number of connections	
• overall	32
usable for PG communication	31
— reserved for PG communication	1
- adjustable for PG communication, max.	0
usable for OP communication	31
	1
- adjustable for OP communication, max.	0
usable for S7 basic communication	
	30 0
- reserved for S7 basic communication	
— adjustable for S7 basic communication, max.	0
usable for S7 communication	30
— reserved for S7 communication	0
— adjustable for S7 communication, max.	0
usable for routing	15
— reserved for routing	0
— adjustable for routing, max.	0
S7 message functions	
Number of login stations for message functions, max.	31; Max. 31 with Alarm_S/SQ and Alarm_D/DQ (OPs); max. 8 with Alarm_8 and Alarm_P (e.g. WinCC)
Symbol-related messages	Yes
SCAN procedure	Yes
Program alarms	Yes
Process diagnostic messages	Yes
simultaneously active Alarm_S blocks, max.	250; Simultaneously active alarm_S/SQ blocks or alarm_D/DQ blocks
Alarm 8-blocks	Yes
<ul> <li>Number of instances for alarm 8 and S7 communication blocks, max.</li> </ul>	300
• preset, max.	150
Process control messages	Yes
Number of archives that can log on simultaneously (SFB 37 AR_SEND)	4
Number of messages	
• overall, max.	256
● in 100 ms grid, max.	0
• in 500 ms grid, max.	256
• in 1000 ms grid, max.	256
Number of additional values	

<ul> <li>with 100 ms grid, max.</li> </ul>	0
<ul> <li>with 100 ms grid, max.</li> <li>with 500, 1000 ms grid, max.</li> </ul>	1
Test commissioning functions	
Status block	Yes; Up to 2 simultaneously
Single step	Yes
Number of breakpoints	4
Status/control	
Status/control variable	Yes; Up to 16 variable tables
Variables	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
Number of variables, max.	70; Status/control
Forcing	
Forcing	Yes
• Forcing, variables	Inputs/outputs, bit memories, distributed I/Os
Number of variables, max.	64
Diagnostic buffer	
• present	Yes
<ul> <li>Number of entries, max.</li> </ul>	200
— adjustable	Yes
— preset	120
Service data	
• can be read out	Yes
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
Use in hazardous areas	
• ATEX	ATEX II 3G Ex nA IIC T4 Gc
Ambient conditions	
Ambient temperature during operation	
• min.	0° 0
• max.	60 ℃
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
System functions (SFC)	see instruction list
System function blocks (SFB)	see instruction list
Programming language	
— LAD	Yes
— FBD	Yes
— STL	Yes
- SCL	Yes
— CFC	Yes
— GRAPH	Yes
— HiGraph®	Yes
configuration / programming / number of simultaneously active	
- DPSYC_FR	2; SFC 11; per interface
- D_ACT_DP	8; SFC 12; per interface
- RD_REC	8; SFC 59; per interface
- WR_REC	8; SFC 58; per interface
- WR_PARM	8; SFC 55; per interface
— PARM_MOD	1; SFC 57; per interface

— WR_DPARM	2; SFC 56; per interface
— DPNRM_DG	8; SFC 13; per interface
- RDSYSST	8; SFC 51
- DP_TOPOL	1; SFC 103; per interface
configuration / programming / number of simultaneously active SFB / header	
- RDREC	8; SFB 52; per interface, but not more than 32 across all external interfaces
- WRREC	8; SFB 53; per interface, but not more than 32 across all external interfaces
Know-how protection	
<ul> <li>User program protection/password protection</li> </ul>	Yes
Dimensions	
Width	25 mm
Height	290 mm
Depth	219 mm
Weights	
Weight, approx.	700 g

last modified:

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