SIEMENS

Data sheet

6ES7414-5HM06-0AB0



SIMATIC S7-400H, CPU 414-5H, central processing unit for S7-400H and S7-400F/FH, 5 interfaces: 1x MPI/DP, 1x DP, 1x PN and 2 for sync modules, 4 MB memory (2 MB data/2 MB program),

General information	
Product type designation	CPU 414-5H PN/DP
HW functional status	1
Firmware version	V6.0
Product function	
Isochronous mode	No
Engineering with	
 Programming package 	As of STEP 7 V5.5 SP2 with HF1
CiR - Configuration in RUN	
CiR synchronization time, basic load	100 ms
CiR synchronization time, time per I/O byte	0 µs
Supply voltage	
Rated value (DC)	Power supply via system power supply
Input current	
from backplane bus 5 V DC, typ.	1.6 A
from backplane bus 5 V DC, max.	1.9 A
from backplane bus 24 V DC, max.	150 mA; 150 mA per DP interface
from interface 5 V DC, max.	90 mA; At each DP interface
Power loss	
Power loss, typ.	7.5 W
Memory	
Type of memory	other
Type of memory Work memory	other
	other 4 Mbyte
Work memory	
Work memory • integrated	4 Mbyte
Work memory integrated integrated (for program) 	4 Mbyte 2 Mbyte
Work memory integrated integrated (for program) integrated (for data) 	4 Mbyte 2 Mbyte 2 Mbyte
Work memory • integrated • integrated (for program) • integrated (for data) • expandable	4 Mbyte 2 Mbyte 2 Mbyte
Work memory • integrated • integrated (for program) • integrated (for data) • expandable Load memory	4 Mbyte 2 Mbyte 2 Mbyte No
Work memory • integrated • integrated (for program) • integrated (for data) • expandable Load memory • expandable FEPROM	4 Mbyte 2 Mbyte 2 Mbyte No Yes; with Memory Card (FLASH)
Work memory • integrated • integrated (for program) • integrated (for data) • expandable Load memory • expandable FEPROM • expandable FEPROM, max.	4 Mbyte 2 Mbyte 2 Mbyte No Yes; with Memory Card (FLASH) 64 Mbyte
Work memory	4 Mbyte 2 Mbyte 2 Mbyte No Yes; with Memory Card (FLASH) 64 Mbyte 512 kbyte
Work memory • integrated • integrated (for program) • integrated (for data) • expandable Load memory • expandable FEPROM • expandable FEPROM, max. • integrated RAM, max. • expandable RAM	4 Mbyte 2 Mbyte 2 Mbyte No Yes; with Memory Card (FLASH) 64 Mbyte 512 kbyte Yes
Work memory	4 Mbyte 2 Mbyte 2 Mbyte No Yes; with Memory Card (FLASH) 64 Mbyte 512 kbyte Yes
Work memory • integrated • integrated (for program) • integrated (for data) • expandable Load memory • expandable FEPROM • expandable FEPROM, max. • integrated RAM, max. • expandable RAM • expandable RAM, max. Backup	4 Mbyte 2 Mbyte 2 Mbyte No Yes; with Memory Card (FLASH) 64 Mbyte 512 kbyte Yes 64 Mbyte
Work memory • integrated • integrated (for program) • integrated (for data) • expandable Load memory • expandable FEPROM • expandable FEPROM, max. • integrated RAM, max. • expandable RAM • expandable RAM • expandable RAM • expandable RAM, max.	4 Mbyte 2 Mbyte 2 Mbyte No Yes; with Memory Card (FLASH) 64 Mbyte 512 kbyte Yes 64 Mbyte Yes
Work memory	4 Mbyte 2 Mbyte 2 Mbyte No Yes; with Memory Card (FLASH) 64 Mbyte 512 kbyte Yes 64 Mbyte Yes 64 Mbyte Yes 64 Mbyte
Work memory	4 Mbyte 2 Mbyte 2 Mbyte No Yes; with Memory Card (FLASH) 64 Mbyte 512 kbyte Yes 64 Mbyte Yes 64 Mbyte Yes 64 Mbyte

Backup current, max.	1 000 µA
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	
for bit operations, typ.	18.75 ns
for word operations, typ.	18.75 ns
for fixed point arithmetic, typ.	18.75 ns
for floating point arithmetic, typ.	37.5 ns
CPU-blocks	
DB	
Number, max.	6 000; Number range: 1 to 16000
• Size, max.	64 kbyte
FB	
Number, max.	3 000; Number range: 0 to 7999
• Size, max.	64 kbyte
FC	
Number, max.	3 000; Number range: 0 to 7999
• Size, max.	64 kbyte
OB	
• Number, max.	see instruction list
• Size, max.	64 kbyte
Number of free cycle OBs	1; OB 1
• Number of time alarm OBs	4; OB 10-13
 Number of delay alarm OBs 	4; OB 20-23
 Number of cyclic interrupt OBs 	4; OB 32-35
 Number of process alarm OBs 	4; OB 40-43
 Number of DPV1 alarm OBs 	3; OB 55-57
 Number of startup OBs 	2; OB 100, 102
 Number of asynchronous error OBs 	9; OB 80-88
 Number of synchronous error OBs 	2; OB 121, 122
Nesting depth	
 per priority class 	24
additional within an error OB	1
Counters, timers and their retentivity	
S7 counter	
Number	2 048
Retentivity	
— adjustable	Yes
— lower limit	0
— upper limit	2 047
— preset	Z 0 to Z 7
Counting range	
— lower limit	0
— upper limit	999
IEC counter	Vec
• present	Yes SFB
• Type	
Number S7 times	Unlimited (limited only by RAM capacity)
Number	2 048
Retentivity	
— adjustable	Yes
— lower limit	0
— upper limit	2 047
— upper innit — preset	No times retentive
Time range	
— lower limit	10 ms
— upper limit	9 990 s
IEC timer	
• present	Yes

• Туре	SFB
Number	Unlimited (limited only by RAM capacity)
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	Total working and load memory (with backup battery)
Flag	Total working and load memory (with backup battery)
• Size, max.	8 192 byte
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	No
Interface modules	
 Number of connectable IMs (total), max. 	6
Number of connectable IM 460s, max.	6
 Number of connectable IM 463s, max. 	4; Single mode only
Number of DP masters	
integrated	2
• via CP	10; CP 443-5 Extended
Mixed mode IM + CP permitted	No
via interface module	0
Number of IO Controllers	
integrated	1
• via CP	0
Number of operable FMs and CPs (recommended)	
● FM	See manual Automation System S7-400H fault-tolerant systems. Limited by number of slots and number of connections
• CP, PtP	See manual Automation System S7-400H fault-tolerant systems. Limited by number of slots and number of connections
PROFIBUS and Ethernet CPs	14; Of which max. 10 CP as DP master
Slots	
required slots	2
Time of day	
Clock	

	Ver
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; Power on
Operating hours counter	
• Number	16
Number/Number range	0 to 15
Range of values	SFCs 2, 3 and 4: 0 to 32767 hours SFC 101: 0 to 2^31 - 1 hours
Granularity	1 h
retentive	Yes
Clock synchronization	
supported	Yes
• to MPI, master	Yes
 to MPI, slave 	Yes
• to DP, master	Yes
• to DP, slave	Yes
• in AS, master	Yes
• in AS, slave	Yes
on Ethernet via NTP	Yes; As client
Time difference in system when synchronizing via	
 Ethernet, max. 	10 ms; Via NTP
• MPI, max.	200 ms
Interfaces	
Number of RS 485 interfaces	2
Number of other interfaces	2; Fiber-optic interface
Optical interface	No
1. Interface	
Interface type	MPI/PROFIBUS DP
Isolated	Yes
Interface types	
• RS 485	Yes
 Output current of the interface, max. 	150 mA
Protocols	
• MPI	Yes
PROFIBUS DP master	Yes
PROFIBUS DP slave	No
MPI	
Number of connections	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
Services	
— PG/OP communication	Yes
— Routing	Yes
— Global data communication	No
- S7 basic communication	No
— S7 communication	Yes
— S7 communication, as client	Yes
— S7 communication, as server	Yes
PROFIBUS DP master	
Number of connections, max.	16; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1
Transmission rate, max.	12 Mbit/s
Number of DP slaves, max.	32
Services	
— PG/OP communication	Yes
— Routing	Yes
— Global data communication	No
— S7 basic communication	No
— S7 communication	Yes
— S7 communication, as client	Yes

 — S7 communication, as server 	Yes
— Equidistance	No
 — Isochronous mode 	No
- SYNC/FREEZE	No
 Activation/deactivation of DP slaves 	No
- Direct data exchange (slave-to-slave	No
communication)	
— DPV1	Yes
Address area	
— Inputs, max.	2 kbyte
— Outputs, max.	2 kbyte
User data per DP slave	
— User data per DP slave, max.	244 byte
— Inputs, max.	244 byte
— Outputs, max.	244 byte
— Slots, max.	244
— per slot, max.	128 byte
PROFIBUS DP slave	
Number of connections	No configuration of CPU as DP slave
2. Interface	
Interface type	PROFINET
Isolated	Yes
automatic detection of transmission rate	Yes; Autosensing
Autonegotiation	Yes
Autocrossing	Yes
Change of IP address at runtime, supported	No
Number of connection resources	64
Interface types	
RJ 45 (Ethernet)	Yes
Number of ports	2
 integrated switch 	Yes
Protocols	
PROFINET IO Controller	Yes
PROFINET IO Device	No
PROFINET CBA	No
PROFIBUS DP master	No
PROFIBUS DP slave	No
Open IE communication	Yes
Web server	No
Point-to-point connection	No
Media redundancy	Yes
PROFINET IO Controller	
Transmission rate, max.	100 Mbit/s
Services	
— PG/OP communication	Yes
— S7 communication	Yes
— Isochronous mode	No
Shared device	
	Yes; Single mode only
— Prioritized startup	No 256: In redundant mode via beth interfaces
— Number of connectable IO Devices, max.	256; In redundant mode via both interfaces
 Number of connectable IO Devices for RT, max. of which in line, may 	256
— of which in line, max.	256
Activation/deactivation of IO Devices	No
 IO Devices changing during operation (partner ports), supported 	No
Device replacement without swap medium	Yes
— Send cycles	250 μs, 500 μs, 1 ms, 2 ms, 4 ms
— Updating time	250 µs, 500 µs, 711s, 211s, 411s 250 µs to 512 ms, minimum value depends on the number of configured user
	data and the configured single or redundant mode
Address area	
— Inputs, max.	8 kbyte
— Outputs, max	8 kbyte

- User data consistency, max. 1 024 byte Open IE communication 62 • Number of connections, max. 62 • Local port numbers used at the system end 0, 20, 21, 25, 102, 135, 161, 34962, 34963, 34964, 65532, 65533, 65534, 65535 • Keep-alive function, supported Yes 3. Interface PROFIBUS DP Number of connection resources 16 Interface types • RS 485 • RS 485 Yes • Output current of the interface, max. 150 mA Protocols • • PROFIBUS DP master Yes • PROFIBUS DP master Yes • Number of connections, max. 16 • PROFIBUS DP master Yes • PROFIBUS DP slave No PROFIBUS DP master Yes • Number of connections, max. 16 • Transmission rate, max. 12 Mbit/s • Number of DP slaves, max. 96 Services - - PG/OP communication Yes - Routing Yes - Global data communication No - S7 communication Yes - S7 communicatio
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• Local port numbers used at the system end0, 20, 21, 25, 102, 135, 161, 34962, 34963, 34964, 65532, 65533, 65534, 65535• Keep-alive function, supportedYes 3. Interface PROFIBUS DPNumber of connection resources16Interface types150 mA• RS 485Yes• Output current of the interface, max.150 mAProtocols16• PROFIBUS DP masterYes• PROFIBUS DP slaveNoPROFIBUS DP slaveNoPROFIBUS DP slaveNoServices16- PGOP communicationYes- RoutingYes- RoutingYes- ST communicationNo- ST communication, as clientYes- ST communication, as clientYes- ST communication, as clientYes- ST communication, as clientYes- ST communication, as clientYes
• Keep-alive function, supportedYes 3. Interface PROFIBUS DPInterface typePROFIBUS DPNumber of connection resources16Interface types150 mA• RS 485Yes• Output current of the interface, max.150 mAProtocolsVes• PROFIBUS DP masterYes• PROFIBUS DP masterYes• PROFIBUS DP slaveNoPROFIBUS DP master16• Number of connections, max.16• Number of DP slaves, max.96Services—- PG/OP communicationYes- RoutingYes- Global data communicationNo- S7 basic communicationNo- S7 communicationYes- S7 communication, as clientYes
3. Interface Interface type PROFIBUS DP Number of connection resources 16 Interface types 16 • RS 485 Yes • Output current of the interface, max. 150 mA Protocols ************************************
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Protocols• PROFIBUS DP masterYes• PROFIBUS DP slaveNoPROFIBUS DP master• Number of connections, max.16• Transmission rate, max.12 Mbit/s• Number of DP slaves, max.96Services PG/OP communicationYes- RoutingYes- Global data communicationNo- S7 basic communicationYes- S7 communicationYes
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• PROFIBUS DP slaveNoPROFIBUS DP master• Number of connections, max.16• Transmission rate, max.12 Mbit/s• Number of DP slaves, max.96Services- PG/OP communicationYes- RoutingYes- Global data communicationNo- S7 basic communicationNo- S7 communicationYes- S7 communicationYes
PROFIBUS DP master• Number of connections, max.16• Transmission rate, max.12 Mbit/s• Number of DP slaves, max.96Services PG/OP communicationYes- RoutingYes- Global data communicationNo- S7 basic communicationNo- S7 communicationYes- S7 communicationYes
 Number of connections, max. Transmission rate, max. Number of DP slaves, max. 96 Services PG/OP communication Routing Global data communication S7 basic communication No S7 communication Yes S7 communication, as client
• Transmission rate, max.12 Mbit/s• Number of DP slaves, max.96Services PG/OP communicationYes- RoutingYes- Global data communicationNo- S7 basic communicationNo- S7 communicationYes- S7 communicationYes- S7 communicationYes- S7 communicationYes- S7 communicationYes- S7 communicationYes
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Services - PG/OP communication Yes - Routing Yes - Global data communication No - S7 basic communication No - S7 communication Yes - S7 communication Yes - S7 communication Yes - S7 communication Yes
— PG/OP communicationYes— RoutingYes— Global data communicationNo— S7 basic communicationNo— S7 communicationYes— S7 communication, as clientYes
RoutingYes Global data communicationNo S7 basic communicationNo S7 communicationYes S7 communication, as clientYes
Global data communication No S7 basic communication No S7 communication Yes S7 communication, as client Yes
S7 basic communicationNo S7 communicationYes S7 communication, as clientYes
S7 basic communicationNo S7 communicationYes S7 communication, as clientYes
— S7 communication Yes — S7 communication, as client Yes
- S7 communication, as client Yes
- Equidistance No
— Isochronous mode No
- SYNC/FREEZE No
— Activation/deactivation of DP slaves
— Direct data exchange (slave-to-slave No communication)
- DPV0 Yes
- DPV1 Yes
Address area
— Inputs, max. 6 kbyte
- Outputs, max. 6 kbyte
User data per DP slave
— User data per DP slave, max. 244 byte
— Inputs, max. 244 byte
- Outputs, max. 244 byte
Slots, max. 244
- per slot, max. 128 byte
4. Interface
Interface type Pluggable synchronization submodule (FO)
Plug-in interface modules Synchronization modules 6ES7960-1AA06-0XA0 or 6ES7960-1AB06-0XA
5. Interface
Interface type Pluggable synchronization submodule (FO)
Plug-in interface modules Synchronization modules 6ES7960-1AA06-0XA0 or 6ES7960-1AB06-0XA
Protocols
Redundancy mode
Media redundancy
- Switchover time on line break, typ. 200 ms
- Number of stations in the ring, max. 50
SIMATIC communication
• S7 routing Yes
Open IE communication
TCP/IP Yes; via integrated PROFINET interface and loadable FBs
- Number of connections, max. 62
— Data length, max. 32 kbyte

 — several passive connections per port, supported 	Yes
 ISO-on-TCP (RFC1006) 	Yes; Via integrated PROFINET interface or CP 443-1 and loadable FBs
 Number of connections, max. 	62
— Data length, max.	32 kbyte; 1 452 bytes via CP 443-1 Adv.
• UDP	Yes; via integrated PROFINET interface and loadable FBs
 — Number of connections, max. 	62
— Data length, max.	1 472 byte
Web server	
supported	No
Isochronous mode	
Equidistance	No
communication functions / header	
PG/OP communication	Yes
 Number of connectable OPs without message processing 	63
Number of connectable OPs with message processing	63; When using Alarm_S/SQ and Alarm_D/DQ
Data record routing	Yes
Global data communication	
supported	No
S7 basic communication	
• communication function / S7 basic communication	No
S7 communication	
supported	Yes
• as server	Yes
• as client	Yes
• User data per job, max.	64 kbyte
 User data per job (of which consistent), max. 	462 byte; 1 variable
S5 compatible communication	
supported	Yes; (via CP max. 10 and FC AG_SEND and FC AG_RECV)
• User data per job, max.	8 kbyte
 User data per job (of which consistent), max. 	240 byte
Number of simultaneous AG-SEND/AG-RECV orders per	64/64
CPU, max.	
Standard communication (FMS)	
 supported 	Yes; Via CP and loadable FB
Number of connections	
• overall	64
 usable for PG communication 	
 reserved for PG communication 	1
 adjustable for PG communication, max. 	0
 usable for OP communication 	
— reserved for OP communication	1
 — adjustable for OP communication, max. 	0
usable for S7 basic communication	
— reserved for S7 basic communication	0
— adjustable for S7 basic communication, max.	0
usable for S7 communication	
- reserved for S7 communication	0
— adjustable for S7 communication, max.	0
usable for routing	
— 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	No
SCAN procedure	No
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	2 500
	2 300

blocks, max.	
• preset, max.	900
Process control messages	Yes
Number of archives that can log on simultaneously (SFB 37 AR_SEND)	16
Test commissioning functions	
Status block	Yes
Single step	Yes
Number of breakpoints	16
Status/control	
Status/control variable	Yes; Up to 16 variable tables
Variables	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
 Number of variables, max. 	70
Forcing	
• Forcing	Yes
Forcing, variables	Inputs/outputs, bit memories, distributed I/Os
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
EMC	
Emission of radio interference acc. to EN 55 011	
Limit class A, for use in industrial areas	Yes
Limit class B, for use in residential areas	No
configuration / header	
Configuration software	
STEP 7	Yes
configuration / programming / header	103
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
— 155 — STL	Yes
— SCL	Yes
— GCL — CFC	Yes
— GRAPH HiGraph®	Yes
— HiGraph®	
configuration / programming / number of simultaneously activ	
- RD_REC	8
- WR_REC	8
- WR_PARM	
- PARM_MOD	1
- WR_DPARM	2
- DPNRM_DG	8
- RDSYSST	8
— DP_TOPOL	1 c CER / header
configuration / programming / number of simultaneously activ	
- RDREC	8
— WRREC	
	0
Know-how protection	
Know-how protection • User program protection/password protection	Yes
Know-how protection	

Width	50 mm
Height Depth	290 mm
Depth	219 mm
Weights	
Weight, approx.	995 g

last modified:

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