SIEMENS

Data sheet

6AG1314-1AG14-7AB0



SIPLUS S7-300 CPU 314 based on 6ES7314-1AG14-0AB0 with conformal coating, -25...+70 °C, central processing unit with MPI, integrated power supply 24 V DC, work memory 128 KB, Micro Memory Card required

Figure similar

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General information	
Product type designation	CPU 314
based on	6ES7314-1AG14-0AB0
Engineering with	
 Programming package 	STEP 7 V5.5 + SP1 or higher or STEP 7 V5.2 + SP1 or higher with HSP 218
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
external protection for power supply lines (recommendation)	2 A min.
Mains buffering	
 Mains/voltage failure stored energy time 	5 ms
 Repeat rate, min. 	1 s
Input current	
Current consumption (rated value)	650 mA
Current consumption (in no-load operation), typ.	140 mA
Inrush current, typ.	3.5 A
l²t	1 A ² ·s
Power loss	
Power loss, typ.	4 W
Memory	
Work memory	
integrated	128 kbyte
expandable	No
Load memory	
Plug-in (MMC)	Yes
 Plug-in (MMC), max. 	8 Mbyte
Data management on MMC (after last programming), min.	10 a
Backup	
• present	Yes; Guaranteed by MMC (maintenance-free)
without battery	Yes; Program and data
CPU processing times	
for bit operations, typ.	0.06 µs
for word operations, typ.	0.12 µs
for fixed point arithmetic, typ.	0.16 µs
for floating point arithmetic, typ.	0.59 µs
CPU-blocks	
Number of blocks (total)	1 024; (DBs, FCs, FBs); the maximum number of loadable blocks can be

	reduced by the MMC used.
DB	
Number, max.	1 024; Number range: 1 to 16000
Size, max.	64 kbyte
FB	
Number, max.	1 024; Number range: 0 to 7999
Size, max.	64 kbyte
FC	
Number, max.	1 024; 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 	1; OB 10
 Number of delay alarm OBs 	2; OB 20, 21
 Number of cyclic interrupt OBs 	4; OB 32, 33, 34, 35
 Number of process alarm OBs 	1; OB 40
 Number of startup OBs 	1; OB 100
 Number of asynchronous error OBs 	4; OB 80, 82, 85, 87
 Number of synchronous error OBs 	2; OB 121, 122
Nesting depth	
• per priority class	16
 additional within an error OB 	4
Counters, timers and their retentivity	
S7 counter	
Number	256
Retentivity	
— adjustable	Yes
— preset	Z 0 to Z 7
Counting range	
— lower limit	0
— upper limit	999
IEC counter	
• present	Yes
 Type 	SFB
Number	Unlimited (limited only by RAM capacity)
S7 times	
Number	256
Retentivity	
— adjustable	Yes
— preset	No retentivity
Time range	
— lower limit	10 ms
— upper limit	9 990 s
IEC timer	
• present	Yes
• Type	SFB
Number	Unlimited (limited only by RAM capacity)
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	64 kbyte
Flag	- · · · · · · · · · · · · · · · · · · ·
• Size, max.	256 byte
Retentivity available	Yes; MB 0 to MB 255
₹ IVCICITIANTA GAGIGOIC	
•	MB 0 to MB 15
Retentivity preset	MB 0 to MB 15
Retentivity preset Number of clock memories	MB 0 to MB 15 8; 1 memory byte
Retentivity presetNumber of clock memoriesData blocks	8; 1 memory byte
 Retentivity preset Number of clock memories Data blocks Retentivity adjustable 	8; 1 memory byte Yes; via non-retain property on DB
 Retentivity preset Number of clock memories Data blocks Retentivity adjustable Retentivity preset 	8; 1 memory byte
 Retentivity preset Number of clock memories Data blocks Retentivity adjustable 	8; 1 memory byte Yes; via non-retain property on DB

Figure F	Address area	
Propus		
• Cutyusis 1024 byte 1024		1 024 byte
Process image		
• Notputs		,
• Outputs	-	1 024 byte
• npuls, adjustable 1024 byte 1024 128 byte 1024 102		
• Outputs, default 128 byte		
• Outputs, default 128 byte Digital channels 1 024 - of which central 1 024 • Outputs 1 024 - of which central 1 024 - of which central 258 - of which central 255 - of which central 255 - of which central 256 - own which central 3 - own which central 3 - own which central 256 - own which central 3 - own which central 3 - own which central 0		
Digital channels	•	
• Injusts		
• Outputs		1 024
of which central 1024 Analog channels of which central 256 of which central 2	— of which central	1 024
Analog channels Inputs Outputs Output	Outputs	1 024
• Inputs	— of which central	1 024
- of which central 256 - Outputs 256 - Outputs 256 - Outputs 256 - Out which central 256 - Outputs	Analog channels	
• Outputs	• Inputs	256
— of which central 256 Hardware configuration		256
Hardware configuration	Outputs	256
Number of expansion units, max. Number of DP masters integrated integrated integrated FM and CPs (recommended) FM & 8 CP, PIP B & 8 CP, PIP CP, LAN ID Rack Racks, max. Modules per rack, max. Modules per rack, max. Modules per rack, max. A * * * * * * * * * * * * * * * * * *		256
Number of expansion units, max. Number of DP masters integrated integrated integrated FM and CPs (recommended) FM & 8 CP, PIP B & 8 CP, PIP CP, LAN ID Rack Racks, max. Modules per rack, max. Modules per rack, max. Modules per rack, max. A * * * * * * * * * * * * * * * * * *	Hardware configuration	
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● integrated 0 ● via CP 4 Number of operable FMs and CPs (recommended) 8 ● FM 8 ● CP, PP 8 ● CP, LAN 10 Racks, max. ● Racks, max. 4 ● Modules per rack, max. 8 Time of day Ves ● Hardware clock (real-time) Yes ● retentive and synchronizable Yes ● Backup time 6 wK; At 40 °C ambient temperature ● Deviation per day, max. 10 s; Typ.: 2 s ● Behavior of the clock following POWER-ON clock continues unning after POWER OFF ● Behavior of the clock following expiry of backup period the clock continues at the time of day it had when power was switched off Operating hours counter ● Number (analy) 1 ● Number (analy) 1 ● Range of values 0 to 2^31 hours (when using SFC 101) ● Granularity 1 h ● retentive Yes ● In MR, master Yes ● In MR, master Yes		
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FM	Number of operable FMs and CPs (recommended)	
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Racks, max. • Racks, max. • Modules per rack, max. • Hardware clock (real-time) • retentive and synchronizable • Backup time • Deviation per day, max. • Behavior of the clock following POWER-ON • Behavior of the clock following expiry of backup period • Behavior of the clock following expiry of backup period • Number • Number • Number 1 • Number 2 • Number 3 • Range of values • Cranularity • retentive • Cranularity • retentive • Supported • Supported • to MPI, master • to MPI, master • to MPI, device • in AS, master • in AS, device No Digital inputs Number of digital inputs Number of digital outputs Number of digital outputs Number of digital outputs Number of analog inputs Ves Number of analog inputs	• CP, PtP	8
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Number of analog inputs 0		0
	Analog inputs	
Interfaces	Number of analog inputs	0
	Interfaces	

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Number of PROFINET interfaces	0
Number of RS 485 interfaces	1; MPI
Number of RS 422 interfaces	0
1. Interface	
Interface type	Integrated RS 485 interface
Isolated	No
Interface types	
• RS 485	Yes
Output current of the interface, max.	200 mA
Protocols	
• MPI	Yes
 PROFIBUS DP master 	No
PROFIBUS DP device	No
Point-to-point connection	No
MPI	
Transmission rate, max.	187.5 kbit/s
Services	
— PG/OP communication	Yes
— Routing	No
 Global data communication 	Yes
 S7 basic communication 	Yes
— S7 communication	Yes; Only server, configured on one side
 — S7 communication, as client 	No
 S7 communication, as server 	Yes
Protocols	
PROFIsafe	No
communication functions / header	
PG/OP communication	Yes
Data record routing	No
Global data communication	
• supported	Yes
Number of GD loops, max.	8
Number of GD packets, max.	8
 Number of GD packets, transmitter, max. 	8
 Number of GD packets, receiver, max. 	8
Size of GD packets, max.	22 byte
 Size of GD packet (of which consistent), max. 	22 byte
S7 basic communication	
• supported	Yes
User data per job, max.	76 byte
User data per job (of which consistent), max.	76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET
. ,	as server)
S7 communication	
supported	Yes
• as server	Yes
• as client	Yes; Via CP and loadable FB
 User data per job, max. 	180 byte; With PUT/GET
User data per job (of which consistent), max.	240 byte; as server
S5 compatible communication	
• supported	Yes; via CP and loadable FC
Number of connections	
• overall	12
 usable for PG communication 	11
 reserved for PG communication 	1
 adjustable for PG communication, min. 	1
 adjustable for PG communication, max. 	11
usable for OP communication	11
— reserved for OP communication	1
— adjustable for OP communication, min.	1
adjustable for OP communication, max.	11
usable for S7 basic communication	8

reserved for S7 basic communication	0
adjustable for S7 basic communication, min.	0
adjustable for S7 basic communication, max.	8
S7 message functions	
Number of login stations for message functions, max.	12; Depending on the configured connections for PG/OP and S7 basic
	communication
Process diagnostic messages	Yes
simultaneously active Alarm-S blocks, max.	300
Test commissioning functions	V 11 / 0 1 / 1
Status block	Yes; Up to 2 simultaneously
Single step	Yes
Number of breakpoints	4
Status/control	
Status/control variable	Yes
 Variables 	Inputs, outputs, memory bits, DB, times, counters
 Number of variables, max. 	30
of which status variables, max.	30
— of which control variables, max.	14
Forcing	
Forcing	Yes
Forcing, variables	Inputs, outputs
Number of variables, max.	10
Diagnostic buffer	
• present	Yes
 Number of entries, max. 	500
— adjustable	No
of which powerfail-proof	100; Only the last 100 entries are retained
 Number of entries readable in RUN, max. 	499
— adjustable	Yes; From 10 to 499
— preset	10
Service data	
• can be read out	Yes
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes; File E239877
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
Use in hazardous areas	
• ATEX	Yes
Ambient conditions	103
Ambient temperature during operation	25 °C: – Train
• min.	-25 °C; = Tmin
max. Ambient temperature during storage/transportation.	70 °C; = Tmax; 60 °C @ UL/cUL, ATEX and FM use
Ambient temperature during storage/transportation	40.00
• min.	-40 °C
• max.	70 °C
Altitude during operation relating to sea level	5000
Installation altitude above sea level, max.	5 000 m
Ambient air temperature-barometric pressure-altitude	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
Relative humidity	
 With condensation, tested in accordance with IEC 60068- 2-38, max. 	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance	
Use in stationary industrial systems	
 to biologically active substances according to EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
 to chemically active substances according to EN 60721-3-3 	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *

Use on ships/at sea	
 to biologically active substances according to EN 60721-3-6 	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
 to chemically active substances according to EN 60721-3-6 	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 to mechanically active substances according to EN 60721-3-6 	Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
 Against chemically active substances acc. to EN 60654-4 	Yes; Class 3 (excluding trichlorethylene)
 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
Remark	
 Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 	* The supplied plug covers must remain in place over the unused interfaces during operation!
configuration / header	
Configuration software	
• STEP 7	Yes; V5.2 SP1 or higher with HW update
configuration / programming / header	
Command set	see instruction list
 Nesting levels 	8
 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
Know-how protection	
 User program protection/password protection 	Yes
Block encryption	Yes; With S7 block Privacy
Dimensions	
Width	40 mm
Height	125 mm
Depth	130 mm
Weights	
Weight, approx.	280 g

last modified:

5/29/2024