SIEMENS

Data sheet

6ES7315-2AH14-0AB0



SIMATIC S7-300, CPU 315-2DP Central processing unit with MPI Integr. power supply 24 V DC Work memory 256 KB 2nd interface DP master/slave Micro Memory Card required

General information	
HW functional status	01
Firmware version	V3.3
Product function	
 Isochronous mode 	Yes
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)	850 mA
Current consumption (in no-load operation), typ.	150 mA
Inrush current, typ.	3.5 A
l²t	1 A ² ·s
Power loss	
Power loss, typ.	4.5 W
Memory	
Work memory	
 integrated 	256 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.	0.05 µs
for word operations, typ.	0.09 µs
for fixed point arithmetic, typ.	0.12 µs
for floating point arithmetic, typ.	0.45 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.	-					
• Size, max.	64 kbyte					
OB						
• Number, max.						
	Size, max.64 kbyteNumber of free cycle OBs1; OB 1Number of time alarm OBs1; OB 10Number of delay alarm OBs2; OB 20, 21					
	1024; Number range: 0 to 7999 64 kbyte64 kbytesee instruction list 64 kbyte64 kbytecle OBs1; OB 1arm OBs1; OB 10alarm OBs2; OB 20, 21nterrupt OBs4; OB 32, 33, 34, 35s alarm OBs1; OB 40alarm OBs3; OB 55, 56, 57onous mode OBs1; OB 100oronous error OBs5; OB 80, 82, 85, 86, 87onous error OBs16n error OB4					
	see instruction list 64 kbyte ycle OBs alarm OBs alarm OBs alarm OBs 1; OB 10 alarm OBs 2; OB 20, 21 interrupt OBs 4; OB 32, 33, 34, 35 ss alarm OBs 1; OB 40 alarm OBs 3; OB 55, 56, 57 ronous mode OBs 1; OB 61 p OBs 1; OB 100 5; OB 80, 82, 85, 86, 87 2; OB 22, 21 16 an error OB 16 4 heir retentivity					
Number of process alarm OBs Number of DPV1 alarm OBs						
Number of isochronous mode OBs	ax. 64 kbyte r, max. 1024; Number range: 0 to 7999 ax. 64 kbyte ax. 64 kbyte r, max. 64 kbyte ax. 64 kbyte r of free cycle OBs 1; OB 1 r of free cycle OBs 1; OB 10 r of free darm OBs 2; OB 20, 21 r of cyclic interrupt OBs 4; OB 32, 33, 34, 35 r of of cyclic interrupt OBs 1; OB 61 r of sochronous mode OBs 1; OB 81 r of sochronous error OBs 5; OB 80, 82, 85, 86, 87 r of synchronous error OBs 2; OB 121, 122 r 16 al within a error OB 4 rest and their retentivity 10 r Y r Y r Y r Social Cancella concella					
Number of startup OBs						
Number of synchronous error OBs						
-						
Nesting depth						
per priority class	16					
additional within an error OB						
Counters, timers and their retentivity						
S7 counter						
Number	256					
Retentivity	250					
— adjustable	Vec					
— lower limit						
— upper limit						
— preset						
Counting range						
— lower limit	0					
— upper limit	999					
IEC counter						
• present	Yes					
• Туре	SFB					
• Number	Unlimited (limited only by RAM capacity)					
S7 times						
Number	256					
Retentivity						
— adjustable	Yes					
— lower limit	0					
— upper limit	255					
— 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.	128 kbyte					
Flag						
• Size, max.	2 048 byte					
Retentivity available	Yes; MB 0 to MB 2 047					
Retentivity preset	MB 0 to MB 15					

Number of clock memories	8; 1 memory byte
Data blocks	
Retentivity adjustable	Yes; via non-retain property on DB
Retentivity preset	Yes
Local data	
 per priority class, max. 	32 kbyte; Max. 2 KB per block
Address area	
I/O address area	
• Inputs	2 048 byte
• Outputs	2 048 byte
of which distributed	
— Inputs	2 048 byte
— Outputs	2 048 byte
Process image	
Inputs	2 048 byte
Outputs	2 048 byte
 Inputs, adjustable 	2 048 byte
 Outputs, adjustable 	2 048 byte
 Inputs, default 	128 byte
Outputs, default	128 byte
Subprocess images	
 Number of subprocess images, max. 	1
Digital channels	
Inputs	16 384
— of which central	1 024
Outputs	16 384
— of which central	1 024
Analog channels	
Inputs	1 024
— of which central	256
Outputs	1 024
— of which central	256
Hardware configuration	
Number of expansion units, max.	3
Number of DP masters	
• integrated	1
• via CP	4
Number of operable FMs and CPs (recommended)	0
• FM	8
• CP, PtP	8
• CP, LAN	10
Rack	4
Racks, max. Modules per rack max	4
Modules per rack, max.	8
Time of day	
Clock	
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 running 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
period Operating hours counter	
Number	1
Number/Number range	0
Range of values	0 to 2^31 hours (when using SFC 101)
Granularity	1 h
retentive	Yes; Must be restarted at each restart
Clock synchronization	
• supported	Yes
• to MPI, master	Yes
• to MPI, slave	Yes

• to DP, master	Yes; With DP slave only slave clock
• to DP, slave	Yes
 in AS, master in AS, slave 	Yes
	No
Digital inputs	
Number of digital inputs	0
Digital outputs	
Number of digital outputs	0
Analog inputs	
Number of analog inputs	0
Analog outputs	
Number of analog outputs	0
Interfaces	
Number of industrial Ethernet interfaces	0
Number of PROFINET interfaces	0
Number of RS 485 interfaces	2; MPI and PROFIBUS DP
Number of RS 422 interfaces	0
1. Interface	
	Integrated DS 485 interface
Interface type Isolated	Integrated RS 485 interface No
Interface types	
RS 485	Yes
 Output current of the interface, max. 	200 mA
Protocols	
• MPI	Yes
PROFIBUS DP master	No
 PROFIBUS DP slave 	No
 Point-to-point connection 	No
MPI	
 Transmission rate, max. 	187.5 kbit/s
Services	
— PG/OP communication	Yes
— Routing	Yes
 — 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
2. Interface	
Interface type	Integrated RS 485 interface
Isolated	Yes
Interface types	
• RS 485	Yes
Output current of the interface, max.	200 mA
Protocols	No
MPI PROFIBUS DP master	No Yes
PROFIBUS DF master PROFIBUS DP slave	Yes
Point-to-point connection	No
PROFIBUS DP master	INU
Transmission rate, max.	12 Mbit/s
Number of DP slaves, max.	124; Per station
Services	
— PG/OP communication	Yes
— Routing	Yes
— Global data communication	No
— S7 basic communication	Yes; I blocks only
— S7 communication	Yes; Only server, configured on one side
— S7 communication, as client	No
— S7 communication, as server	Yes
— Equidistance	Yes
— Isochronous mode	Yes; OB 61

0.410/55 ====		
- SYNC/FREEZE	Yes	
Activation/deactivation of DP slaves	Yes	
 — Number of DP slaves that can be simultaneously activated/deactivated, max. 	8	
— DPV1	Yes	
Address area	100	
— Inputs, max.	2 048 byte	
— Outputs, max.	2 048 byte	
User data per DP slave		
— Inputs, max.	244 byte	
— Outputs, max.		
PROFIBUS DP slave		
GSD file	The latest GSD file is available at: http://www.siemens.com/profibus-gsd	
 Transmission rate, max. 	12 Mbit/s	
 automatic baud rate search 	12 Mbit/sYes; only with passive interface 32a, max.32 byteonYes; Only with active interface Yes; Only with active interfacecationNoYes; Only server, configured on one sides clientNos serverYes	
 Address area, max. 	searchYes; only with passive interface 32 32 bytess area, max.32 bytenicationYes Yes; Only with active interfacemmunicationNonunicationNoves; Only server, configured on one sidetion, as clientNotion, as serverYes Yeshange (slave-to-slaveYes	
 User data per address area, max. 	earch Yes; only with passive interface 32 area, max. 32 byte tation Yes Yes; Only with active interface nunication No nication No n Yes; Only server, configured on one side n, as client No n, as server Yes nge (slave-to-slave Yes No	
Services		
— PG/OP communication		
— Routing	Yes; Only with active interface	
— Global data communication		
— S7 basic communication		
— S7 communication		
— S7 communication, as client		
— S7 communication, as server		
 — Direct data exchange (slave-to-slave communication) 	Yes	
— DPV1	No	
Transfer memory		
— Inputs	244 byte	
— Outputs		
Protocols		
PROFIsafe	No	
PROFIsafe	No	
communication functions / header		
communication functions / header PG/OP communication	Yes	
communication functions / header PG/OP communication Data record routing		
communication functions / header PG/OP communication Data record routing Global data communication	Yes Yes	
communication functions / header PG/OP communication Data record routing Global data communication • supported	Yes Yes Yes	
communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max.	Yes Yes	
communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max.	Yes Yes Yes 8	
communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max. • Number of GD packets, transmitter, max.	Yes Yes Yes 8 8	
communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max.	Yes Yes Yes 8 8 8 8	
communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max. • Number of GD packets, transmitter, max. • Number of GD packets, receiver, max.	Yes Yes Yes 8 8 8 8 8 8	
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 reserved for OP communication 	1
 adjustable for OP communication, min. 	1
 adjustable for OP communication, max. 	15
 usable for S7 basic communication 	12
 reserved for S7 basic communication 	0
 adjustable for S7 basic communication, min. 	0
— adjustable for S7 basic communication, max.	12
S7 message functions	
	16: Depending on the configured connections for DC/OD and C7 basis
Number of login stations for message functions, max.	16; Depending on the configured connections for PG/OP and S7 basic communication
Process diagnostic messages	Yes
simultaneously active Alarm-S blocks, max.	300
	300
Test commissioning functions	
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
	roo, only the last roo entries are retained
 Number of entries readable in RUN, max. 	Vos: From 10 to 400
— adjustable	Yes; From 10 to 499
— adjustable — preset	Yes; From 10 to 499 10
— adjustable — preset Service data	10
 — adjustable — preset Service data can be read out 	
	10
	10 Yes
	10 Yes 0 °C
	10 Yes
 adjustable preset Service data can be read out Ambient conditions Ambient temperature during operation min. 	10 Yes 0 °C
 adjustable preset Service data can be read out Ambient conditions Ambient temperature during operation min. max. 	10 Yes 0 °C
 — adjustable — preset Service data can be read out Ambient conditions Ambient temperature during operation min. max. configuration / header 	10 Yes 0 °C
 adjustable preset Service data can be read out Ambient conditions Ambient temperature during operation min. max. Configuration / header Configuration software 	10 Yes 0 °C 60 °C
 adjustable preset Service data can be read out Ambient conditions Ambient temperature during operation min. max. Configuration / header Configuration software STEP 7 	10 Yes 0 °C 60 °C
 adjustable preset Service data can be read out Ambient conditions Ambient temperature during operation min. max. Configuration / header STEP 7 configuration / programming / header 	10 Yes 0 °C 60 °C Yes; V5.2 SP1 or higher with HW update
 adjustable preset Service data can be read out Ambient conditions Ambient temperature during operation min. max. Configuration / header Configuration software STEP 7 configuration / programming / header Command set Nesting levels 	10 Yes 0 °C 60 °C Yes; V5.2 SP1 or higher with HW update see instruction list
 adjustable preset Service data can be read out Ambient conditions Ambient temperature during operation min. max. Configuration / header STEP 7 configuration / programming / header Command set 	10 Yes 0 °C 60 °C Yes; V5.2 SP1 or higher with HW update see instruction list 8
 adjustable preset Service data can be read out Ambient conditions Ambient temperature during operation min. max. Configuration / header Configuration software STEP 7 configuration / programming / header Command set Nesting levels System functions (SFC) System function blocks (SFB) 	10 Yes 0 °C 60 °C Yes; V5.2 SP1 or higher with HW update see instruction list 8 see instruction list
 adjustable preset Service data can be read out Ambient conditions Ambient temperature during operation min. max. configuration / header Configuration software STEP 7 configuration / programming / header Command set Nesting levels System functions (SFC) 	10 Yes 0 °C 60 °C Yes; V5.2 SP1 or higher with HW update see instruction list 8 see instruction list
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 adjustable preset Service data can be read out Ambient conditions Ambient temperature during operation min. max. Configuration / header Configuration software STEP 7 configuration / programming / header Command set Nesting levels System functions (SFC) System function blocks (SFB) Programming language	10 Yes 0 °C 60 °C Yes; V5.2 SP1 or higher with HW update see instruction list 8 see instruction list 9 see instruction list 9
 adjustable preset Service data can be read out Ambient conditions Ambient temperature during operation min. max. configuration / header Configuration software STEP 7 configuration / programming / header Command set Nesting levels System functions (SFC) System function blocks (SFB) Programming language LAD FBD STL 	10 Yes 0 °C 60 °C Yes; V5.2 SP1 or higher with HW update see instruction list 8 see instruction list 9 see instruction list 9 see instruction list 9 see instruction list
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Weight, approx.

last modified:

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