## **SIEMENS**

Product data sheet 6ES7315-2EH14-0AB0



SIMATIC S7-300 CPU 315-2 PN/DP, CENTRAL PROCESSING UNIT WITH 384 KBYTE WORKING MEMORY,

- 1. INTERFACE MPI/DP 12MBIT/S,
- 2. INTERFACE ETHERNET PROFINET, WITH 2 PORT SWITCH, MICRO MEMORY CARD NECESSARY

General information	
Hardware product version	01
Firmware version	V3.2
Engineering with	
Programming package	STEP7 V 5.5 or higher
Supply voltage	
24 V DC	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
External protection for supply cables (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)	750 mA
Current consumption (in no-load operation), typ.	150 mA
Inrush current, typ.	4 A
l²t 	1 A²·s
Power losses	

Power loss, typ.	4.65 W
Memory	
Work memory	
integrated	384 kbyte
expandable	No
Size of retentive memory for retentive data blocks	128 kbyte
Load memory	
pluggable (MMC)	Yes
pluggable (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)	1024; (DBs, FCs, FBs); the maximum number of loadable blocks can be reduced by the MMC used.
DB	
Number, max.	1024 ; Number range: 1 to 16000
Size, max.	64 kbyte
FB	
Number, max.	1024 ; Number range: 0 to 7999
Size, max.	64 kbyte
FC	
Number, max.	1024 ; Number range: 0 to 7999
Size, max.	64 kbyte
OB	
Size, max.	64 kbyte
Number of free cycle OBs	1; OB 1
Number of time alarm OBs	1; OB 10
Number of time alarm OBs  Number of delay alarm OBs	1; OB 10 2; OB 20, 21
Number of delay alarm OBs	2 ; OB 20, 21
Number of delay alarm OBs  Number of time interrupt OBs	2 ; OB 20, 21 4 ; OB 32, 33, 34, 35

Number of startup OBs	1; OB 100
Number of asynchronous error OBs	6 ; OB 80, 82, 83, 85, 86, 87 (OB83 only for PROFINET IO)
Number of synchronous error OBs	2 ; OB 121, 122
Nesting depth	2,05,12,1,12
per priority class	16
additional within an error OB	4
Counters, timers and their retentivity	
S7 counter	
Number	256
Retentivity	
adjustable	Yes
lower limit	0
upper limit	255
preset	Z 0 to Z 7
Counting range	
adjustable	Yes
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	9990 s
IEC timer	
present	Yes
Туре	SFB
Number	Unlimited (limited only by RAM capacity)
Data areas and their retentivity	
retentive data area, total	All, 128 KB max.

Flag	
Number, max.	2048 byte
Retentivity available	Yes ; MB 0 to MB 2047
Retentivity preset	MB 0 to MB 15
Number of clock memories	8 ; 1 memory byte
Data blocks	
Number, max.	1024 ; Number range: 1 to 16000
Size, max.	64 kbyte
Retentivity adjustable	Yes ; via non-retain property on DB
Retentivity preset	Yes
Local data	
per priority class, max.	32768 byte ; Max. 2048 bytes per block
Address area	
I/O address area	
Inputs	2048 byte
Outputs	2048 byte
of which, distributed	
Inputs	2048 byte
Outputs	2048 byte
Process image	
Inputs	2048 byte
Outputs	2048 byte
Inputs, adjustable	2048 byte
Outputs, adjustable	2048 byte
Inputs, default	128 byte
Outputs, default	128 byte
Subprocess images	
Number of subprocess images, max.	1; With PROFINET IO, the length of the user data is limited to 1600 bytes
Digital channels	
Inputs	16384
Outputs	16384
Inputs, of which central	1024
Outputs, of which central	1024
Analog channels	
Inputs	1024
Outputs	1024
Inputs, of which central	256
Outputs, of which central	256

Hardware configuration	
Racks, max.	4
Modules per rack, max.	8
Expansion devices, max.	3
Number of DP masters	
integrated	1
via CP	4
Number of operable FMs and CPs (recommended)	
FM	8
CP, point-to-point	8
CP, LAN	10
Time of day	
Clock	
Hardware clock (real-time clock)	Yes
battery-backed and synchronizable	Yes
Deviation per day, max.	10 s; Typ.: 2 s
Backup time	6 wk ; At 40 °C ambient temperature
Behavior of the clock following POWER-ON	Clock continues running after POWER OFF
Behavior of the clock following expiry of backup period	Clock continues to run with the time at which the power failure occurred
Operating hours counter	
Number	1
Number/Number range	0
Range of values	0 to 2^31 hours (when using SFC 101)
Granularity	1 hour
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	Yes
in AS, slave	Yes
on Ethernet via NTP	Yes ; as client
Interfaces	
Number of USB interfaces	0
Number of parallel interfaces	0
Number of 20 mA interfaces (TTY)	0
,	

Number of RS 232 interfaces	0
Number of RS 422 interfaces	0
Number of other interfaces	1 ; Ethernet, 2-port switch, 2*RJ45
1st interface	<u> </u>
Type of interface	Integrated RS 485 interface
Physics	RS 485
Isolated	Yes
Power supply to interface (15 to 30 V DC), max.	200 mA
Functionality	<u> </u>
MPI	Yes
DP master	Yes
DP slave	Yes
Point-to-point connection	No
MPI	
Transmission rate, max.	12 Mbit/s
Services	
PG/OP communication	Yes
Routing	Yes
Global data communication	Yes
S7 basic communication	Yes
S7 communication	Yes
S7 communication, as client	No ; but via CP and loadable FB
S7 communication, as server	Yes
DP master	
Transmission rate, max.	12 Mbit/s
Number of DP slaves, max.	124
Services	
PG/OP communication	Yes
Routing	Yes
Global data communication	No
S7 basic communication	Yes ; I blocks only
S7 communication	Yes
S7 communication, as client	No
S7 communication, as server	Yes
Equidistance mode support	Yes
Isochronous mode	Yes; OB 61; isochronous mode can only be used alternatively on PROFIBUS DP or PROFINET IO
SYNC/FREEZE	Yes
Activation/deactivation of DP slaves	Yes

Number of DP slaves that can be simultaneously activated/deactivated, max.	8
Direct data exchange (slave-to-slave communication)	Yes ; As subscriber
DPV1	Yes
Address area	
Inputs, max.	2 kbyte
Outputs, max.	2 kbyte
User data per DP slave	
Inputs, max.	244 byte
Outputs, max.	244 byte
DP slave	
Transmission rate, max.	12 Mbit/s
Automatic baud rate search	Yes ; only with passive interface
Address area, max.	32
User data per address area, max.	32 byte
Services	
PG/OP communication	Yes
Routing	Yes ; Only with active interface
Global data communication	No
S7 basic communication	No
S7 communication	Yes
S7 communication, as client	No
S7 communication, as server	Yes ; Connection configured on one side only
Direct data exchange (slave-to-slave communication)	Yes
DPV1	No
Transfer memory	
Inputs	244 byte
Outputs	244 byte
2nd interface	
Type of interface	PROFINET
Physics	Ethernet RJ45
Isolated	Yes
Integrated switch	Yes
Number of ports	2
Automatic detection of transmission speed	Yes ; 10/100 Mbit/s
Autonegotiation	Yes
Autocrossing	Yes
Change of IP address at runtime, supported	Yes
Media redundancy	

supported	Yes
Switchover time on line break, typically	200 ms ; PROFINET MRP
Number of stations in the ring, max.	50
Functionality	
MPI	No
DP master	No
DP slave	No
PROFINET IO Controller	Yes ; Also simultaneously with IO-Device functionality
PROFINET IO Device	Yes ; Also simultaneously with IO Controller functionality
PROFINET CBA	Yes
Open IE communication	Yes ; Via TCP/IP, ISO on TCP, and UDP
Web server	Yes
Number of HTTP clients	5
PROFINET IO Controller	
Transmission rate, max.	100 Mbit/s
Number of connectable IO devices, max.	128
Max. number of connectable IO devices for RT	128
of which in line, max.	128
Number of IO devices with IRT and the option "high flexibility"	128
of which in line, max.	61
Number of IO Devices with IRT and the option "high performance", max.	64
of which in line, max.	64
IRT, supported	Yes
Shared device, supported	Yes
Prioritized startup supported	Yes
Number of IO Devices, max.	32
Activation/deactivation of IO Devices	Yes
Maximum number of IO devices that can be activated/deactivated at the same time.	8
IO Devices changing during operation (partner ports), supported	Yes
Max. number of IO devices per tool	8
Device replacement without swap medium	Yes
Send cycles	$^{-}$ 250 $\mu s,$ 500 $\mu s,$ 1 ms; 2 ms, 4 ms (not in the case of IRT with "high flexibility" option)
Updating time	250 µs to 512 ms (depending on the operating mode, see Manual "S7-300 CPU 31xC and CPU 31x, Technical Data" for more details)
Services	
PG/OP communication	Yes
Routing	Yes

07 1 1	V MELL 111 ED 6 11
	Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32
	Yes ; OB 61; isochronous mode can only be used alternatively on PROFIBUS DP or PROFINET IO
Open IE communication	Yes ; Via TCP/IP, ISO on TCP, and UDP
Address area	
Inputs, max.	2 kbyte
Outputs, max.	2 kbyte
User data consistency, max.	1024 byte
PROFINET IO Device	
Services	
PG/OP communication	Yes
Routing	Yes
	Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32
Isochronous mode	No
Open IE communication	Yes ; Via TCP/IP, ISO on TCP, and UDP
IRT, supported	Yes
	Yes ; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB for I-Device
Shared device, supported	Yes
Number of IO controllers with shared device, max.	2
Transfer memory	
Inputs, max.	1440 byte ; Per IO Controller with shared device
Outputs, max.	1440 byte ; Per IO Controller with shared device
Submodules	
Number, max.	64
User data per submodule, max.	1024 byte
PROFINET CBA	
acyclic transmission	Yes
Cyclic transmission	Yes
Open IE communication	
Open IE communication, supported	Yes
Number of connections, max.	8
· · · · · · · · · · · · · · · · · · ·	0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535
Keep-alive function, supported	Yes
Keep-alive function, supported  Isochronous mode	Yes
Isochronous mode	Yes ; Via PROFIBUS DP or PROFINET interface

S7 communication  supported  as server  Yes  as client  Yes; via integrated PROFINET interface and loadable FB or via CF and loadable FB	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, transmitter, max.  Size of GD packets, receiver, max.  Size of GD packets, max.  Size of GD packet (of which consistent), max.  22 byte  S7 basic communication  supported  Yes  User data per job, max.  76 byte  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  Yes  Yes  See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication)		Yes
Number of GD loops, max.  Number of GD packets, max.  Number of GD packets, transmitter, max.  Number of GD packets, transmitter, max.  8  Number of GD packets, receiver, max.  Size of GD packets, max.  22 byte  S7 basic communication  supported  Yes  User data per job, max.  76 byte  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 integrated PROFINET interface and loadable FB or via Cf and loadable FB  User data per job, max.  See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication)		
Number of GD packets, max.  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  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 integrated PROFINET interface and loadable FB or via Cf and loadable FB  User data per job, max.  See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication)	supported	Yes
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Number of GD packets, receiver, max.  Size of GD packets, max.  Size of GD packet (of which consistent), max.  22 byte  S7 basic communication  supported  Yes  User data per job (of which consistent), 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  Yes; via integrated PROFINET interface and loadable FB or via CF and loadable FB  User data per job, max.  See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication)	Number of GD packets, max.	8
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Size of GD packet (of which consistent), max.  22 byte  S7 basic communication  supported  Yes  User data per job, max.  76 byte  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 integrated PROFINET interface and loadable FB or via CF and loadable FB  User data per job, max.  See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication)	Number of GD packets, receiver, max.	8
S7 basic communication  supported  Yes  User data per job, max.  76 byte  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 integrated PROFINET interface and loadable FB or via CF and loadable FB  User data per job, max.  See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication)	Size of GD packets, max.	22 byte
supported  User data per job, max.  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 integrated PROFINET interface and loadable FB or via CF and loadable FB  User data per job, max.  See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication)	Size of GD packet (of which consistent), max.	22 byte
User data per job, max.  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 integrated PROFINET interface and loadable FB or via CF and loadable FB  User data per job, max.  See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication)	S7 basic communication	
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 integrated PROFINET interface and loadable FB or via CF and loadable FB  User data per job, max.  See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication)	supported	Yes
S7 communication  supported  As server  Yes  as client  Yes; via integrated PROFINET interface and loadable FB or via CF and loadable FB  User data per job, max.  See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication)	User data per job, max.	76 byte
supported  As server  As client  Yes  Yes  Yes  Yes  Yes  Yes; via integrated PROFINET interface and loadable FB or via CF and loadable FB  User data per job, max.  See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication)	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)
as server  As client  Yes  Yes  Yes  Yes; via integrated PROFINET interface and loadable FB or via CF and loadable FB  User data per job, max.  See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication)	S7 communication	
As client  Yes; via integrated PROFINET interface and loadable FB or via CF and loadable FB  User data per job, max.  See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication)	supported	Yes
user data per job, max.  See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication)	as server	Yes
of the SFCs/FCs of S7 Communication)	as client	Yes ; via integrated PROFINET interface and loadable FB or via CP and loadable FB
S5-compatible communication	User data per job, max.	See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication)
	S5-compatible communication	
supported Yes ; via CP and loadable FC	supported	Yes ; via CP and loadable FC
Open IE communication	Open IE communication	
TCP/IP  Yes ; via integrated PROFINET interface and loadable FBs	TCP/IP	Yes ; via integrated PROFINET interface and loadable FBs
Number of connections, max. 8	Number of connections, max.	8
Data length for connection type 01H, max. 1460 byte	Data length for connection type 01H, max.	1460 byte
Data length for connection type 11H, max. 32768 byte	Data length for connection type 11H, max.	32768 byte
Several passive connections per port, supported  Yes	Several passive connections per port, supported	Yes
ISO-on-TCP (RFC1006)  Yes ; via integrated PROFINET interface and loadable FBs	ISO-on-TCP (RFC1006)	Yes ; via integrated PROFINET interface and loadable FBs
Number of connections, max. 8	Number of connections, max.	8
Data length, max. 32768 byte	Data length, max.	32768 byte
Ves ; via integrated PROFINET interface and loadable FBs	UDP	Yes ; via integrated PROFINET interface and loadable FBs
Number of connections, max. 8		8
Data length, max. 1472 byte	Number of connections, max.	1472 byte
Web server		
supported Yes	Data length, max.	
Number of HTTP clients 5	Data length, max. Web server	Yes
User-defined websites Yes	Data length, max.  Web server supported	

PROFINET CBA (at set setpoint communication load)	
Setpoint for the CPU communication load	50 %
Number of remote interconnection partners	32
Number of functions, master/slave	30
Total of all Master/Slave connections	1000
Data length of all incoming connections master/slave, max.	4000 byte
Data length of all outgoing connections master/slave, max.	4000 byte
Number of device-internal and PROFIBUS interconnections	500
Data length of device-internal und PROFIBUS interconnections, max.	4000 byte
Data length per connection, max.	1400 byte
Remote interconnections with acyclic transmission	
Sampling frequency: Sampling time, min.	500 ms
Number of incoming interconnections	100
Number of outgoing interconnections	100
Data length of all incoming interconnections, max.	2000 byte
Data length of all outgoing interconnections, max.	2000 byte
Data length per connection, max.	1400 byte
Remote interconnections with cyclic transmission	
Transmission frequency: Transmission interval, min.	10 ms
Number of incoming interconnections	200
Number of outgoing interconnections	200
Data length of all incoming interconnections, max.	2000 byte
Data length of all outgoing interconnections, max.	2000 byte
Data length per connection, max.	450 byte
HMI variables via PROFINET (acyclic)	_
Number of stations that can log on for HMI variables (PN OPC/iMap)	3 ; 2x PN OPC/1x iMap
HMI variable updating	500 ms
Number of HMI variables	200
Data length of all HMI variables, max.	2000 byte
PROFIBUS proxy functionality	
supported	Yes
Number of linked PROFIBUS devices	16
Data length per connection, max.	240 byte ; Slave-dependent
Number of connections	
overall	16
usable for PG communication	15
reserved for PG communication	1

Adjustable for PG communication, min.	1
Adjustable for PG communication, max.	15
usable for OP communication	15
reserved for OP communication	1
adjustable for OP communication, min.	1
adjustable for OP communication, max.	15
usable for S7 basic communication	14
Reserved for S7 basic communication	0
adjustable for S7 basic communication, min.	0
adjustable for S7 basic communication, max.	14
usable for S7 communication	14
reserved for S7 communication	0
Adjustable for S7 communication, min.	0
Adjustable for S7 communication, max.	14
Max. total number of instances	32
usable for routing	X1 as MPI: max. 10; X1 as DP master: max. 24; X1 as DP slave (active): max. 14; X2 as PROFINET: 24 max.
S7 message functions	
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
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
of which control variables, max. Forcing	14
	14 Yes
Forcing	
Forcing Forcing	Yes
Forcing Force, variables	Yes Inputs, outputs
Forcing Force, variables Number of variables, max.	Yes Inputs, outputs
Forcing Force, variables Number of variables, max. Diagnostic buffer	Yes Inputs, outputs 10

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
Ambient conditions	
Operating temperature	
Min.	0 °C
max.	60 °C
Configuration	
Configuration software	
STEP 7	Yes ; V5.5 or higher
programming	
Command set	see instruction list
Nesting levels	8
Programming language	
LAD	Yes
FBD	Yes
STL	Yes
SCL	Yes
CFC	Yes
GRAPH	Yes
HiGraph®	Yes
Software libraries	
System functions (SFC)	see instruction list
System function blocks (SFB)	see instruction list
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
Weight	
Weight, approx.	340 g
Status	May 28, 2013