SIEMENS

Data sheet



SIMATIC S7-300, CPU 317-2 DP, Central processing unit with 1 MB work memory, 1st interface MPI/DP 12 Mbit/s, 2nd interface DP master/slave Micro Memory Card required

General information	
HW functional status	01
Firmware version	V3.3
Engineering with	
Programming package	STEP 7 as of V5.5 + SP1 or STEP 7 V5.2 + SP1 or higher with HSP 202
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)	870 mA
Current consumption (in no-load operation), typ.	120 mA
Inrush current, typ.	4 A
l²t	1 A ² ·s
Power loss	
Power loss, typ.	4.5 W
Memory	
Work memory	
integrated	1 024 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.	0.025 μs
for word operations, typ.	0.03 µs
for fixed point arithmetic, typ.	0.04 µs
for floating point arithmetic, typ.	0.16 µs
CPU-blocks	
Number of blocks (total)	2 048; (DBs, FCs, FBs); the maximum number of loadable blocks can

	be reduced by the MMC used.
DB	20 roduoda by the mino docu.
Number, max.	2 048; Number range: 1 to 16000
• Size, max.	64 kbyte
FB	· · · · · · · · · · · · · · · · · · ·
Number, max.	2 048; Number range: 0 to 7999
• Size, max.	64 kbyte
FC	
Number, max.	2 048; 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 DPV1 alarm OBs 	3; OB 55, 56, 57
 Number of isochronous mode OBs 	1; OB 61
 Number of startup OBs 	1; OB 100
 Number of asynchronous error OBs 	5; OB 80, 82, 85, 86, 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	512
Retentivity	
— adjustable	Yes
— lower limit	0
— upper limit	511
— 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	512
Retentivity	
— adjustable	Yes
— lower limit	0
— upper limit	511
— 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.	256 kbyte
Flag	
Size, max.	4 096 byte
 Retentivity available 	Yes; From MB 0 to MB 4 095
 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.	32 768 byte; Max. 2048 bytes per block
Address area	
I/O address area	
• Inputs	8 192 byte
 Outputs 	8 192 byte
of which distributed	
— Inputs	8 192 byte
— Outputs	8 192 byte
Process image	
• Inputs	8 192 byte
• Outputs	8 192 byte
• Inputs, adjustable	8 192 byte
Outputs, adjustable	8 192 byte
• Inputs, default	256 byte
Outputs, default	256 byte
Subprocess images	4
Number of subprocess images, max. Digital shappeds	1
Digital channels	65 526
• Inputs	65 536
— of which central	1 024
Outputs of which control	65 536
— of which central	1 024
Analog channels	4 096
Inputs— of which central	256
Outputs	4 096
Outputs — of which central	256
Hardware configuration	
Number of expansion units, max.	3
Number of DP masters	2
integratedvia CP	4
Number of operable FMs and CPs (recommended)	•
FM FM	8
• CP, PtP	8
• CP, LAN	10
Rack	
• Racks, 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	the clock continues at the time of day it had when power was switched
period	off
Operating hours counter	
Number	4
 Number/Number range 	0 to 3
 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	Yes
• in AS, slave	Yes
• on Ethernet via NTP	No
Digital inputs	
Number of digital inputs	0
Digital outputs	
Number of digital outputs	0
Analog inputs	0
	0
Number of analog inputs	O .
Analog outputs	
Number of analog outputs	0
Interfaces	
Number of industrial Ethernet interfaces	0
Number of PROFINET interfaces	0
Number of RS 485 interfaces Number of RS 422 interfaces	2; Combined MPI / PROFIBUS DP and PROFIBUS DP
	0
1. Interface	late wasted DO 405 interferen
Interface type Isolated	Integrated RS 485 interface
	Yes
Interface types • RS 485	Yes
NS 485Output current of the interface, max.	200 mA
Protocols	200 110 (
MPI	Yes
PROFIBUS DP master	Yes
PROFIBUS DP slave	Yes; A DP slave at both interfaces simultaneously is not possible
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; Only server, configured on one side
— S7 communication, as client	No; but via CP and loadable FB
— S7 communication, as server	Yes
PROFIBUS DP master • Transmission rate, max.	12 Mbit/s
Number of DP slaves, max.	124
Services	124
— 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	No
— SYNC/FREEZE	Yes
 Activation/deactivation of DP slaves 	Yes
— Number of DP slaves that can be	8
simultaneously activated/deactivated, max.	Voc. as subscriber
 Direct data exchange (slave-to-slave communication) 	Yes; as subscriber
— DPV1	Yes
Address area	
— Inputs, max.	8 kbyte
— Outputs, max.	8 kbyte
User data per DP slave	
— Inputs, max.	244 byte
— Outputs, max.	244 byte

PROFIBUS 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; Only server, configured on one side
 — S7 communication, as client 	No
 — S7 communication, as server 	Yes; Connection configured on one side only
 Direct data exchange (slave-to-slave 	Yes
communication)	
— DPV1	No
Transfer memory	
— Inputs	244 byte
— Outputs	244 byte
2. Interface	
Interface type	Integrated RS 485 interface
Isolated	Yes
Interface types	
• RS 485	Yes
Output current of the interface, max.	200 mA
Protocols	200 110 (
• MPI	No
PROFIBUS DP master	Yes
PROFIBUS DP slave	Yes; A DP slave at both interfaces simultaneously is not possible
Point-to-point connection	No
PROFIBUS DP master	140
Transmission rate, max.	12 Mbit/s
Number of DP slaves, max.	124
Services	124
— PG/OP communication	Von
	Yes
— Routing	Yes
— Global data communication	No Wassalaharana
— S7 basic communication	Yes; I blocks only
— S7 communication	Yes; Only server, configured on one side
— S7 communication, as client	No; but via CP and loadable FB
— S7 communication, as server	Yes
— Equidistance	Yes
 Isochronous mode 	Yes; OB 61
— SYNC/FREEZE	Yes
Activation/deactivation of DP slaves	Yes
Number of DP slaves that can be	8
simultaneously activated/deactivated, max.	
 — Direct data exchange (slave-to-slave communication) 	Yes; as subscriber
— DPV1	Yes
	163
Address area	9 102 byta
— Inputs, max.	8 192 byte
— Outputs, max.	8 192 byte
User data per DP slave	244 buto
— Inputs, max.	244 byte
Outputs, max.	244 byte
PROFIBUS DP slave	The Late of COR State of Corner and Corner a
	The latest GSD file is available on the Internet
PROFIBUS DP slave ◆ GSD file	(http://www.siemens.com/profibus-gsd)
PROFIBUS DP slave • GSD file • Transmission rate, max.	(http://www.siemens.com/profibus-gsd) 12 Mbit/s
PROFIBUS DP slave • GSD file • Transmission rate, max. • automatic baud rate search	(http://www.siemens.com/profibus-gsd) 12 Mbit/s Yes; only with passive interface
PROFIBUS DP slave • GSD file • Transmission rate, max. • automatic baud rate search • Address area, max.	(http://www.siemens.com/profibus-gsd) 12 Mbit/s Yes; only with passive interface 32
PROFIBUS DP slave • GSD file • Transmission rate, max. • automatic baud rate search	(http://www.siemens.com/profibus-gsd) 12 Mbit/s Yes; only with passive interface

 PG/OP communication 	Yes
Routing	Yes; Only with active interface
 Global data communication 	No
 S7 basic communication 	No
— S7 communication	Yes; Only server, configured on one side
 S7 communication, as client 	No; but via CP and loadable FB
 — S7 communication, as server 	Yes
Direct data exchange (slave-to-slave)	Yes
communication)	
— DPV1	No
Transfer memory	
— Inputs	244 byte
— Outputs	244 byte
·	2++ byto
Protocols	
PROFIsafe	No
communication functions / header	
PG/OP communication	Yes
Data record routing	Yes
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	ZZ byte
supported	Yes
• •	76 byte
User data per job, max. User data per job (of which consistent), 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 CP and loadable FB
User data per job, max.	See online help of STEP 7 (shared parameters of the SFBs/FBs and of
• Oser data per job, max.	the SFCs/FCs of S7 Communication)
S5 compatible communication	,
supported	Yes; via CP and loadable FC
Number of connections	
	32
overall	32 31
overallusable for PG communication	31
overallusable for PG communicationreserved for PG communication	31 1
 overall usable for PG communication reserved for PG communication adjustable for PG communication, min. 	31 1 1
 overall usable for PG communication reserved for PG communication adjustable for PG communication, min. adjustable for PG communication, max. 	31 1 1 31
 overall usable for PG communication reserved for PG communication adjustable for PG communication, min. adjustable for PG communication, max. usable for OP communication 	31 1 1 31 31
 overall usable for PG communication reserved for PG communication adjustable for PG communication, min. adjustable for PG communication, max. usable for OP communication reserved for OP communication 	31 1 1 31 31 1
 overall usable for PG communication reserved for PG communication adjustable for PG communication, min. adjustable for PG communication, max. usable for OP communication reserved for OP communication adjustable for OP communication, min. 	31 1 1 31 31 1
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 overall usable for PG communication reserved for PG communication adjustable for PG communication, min. adjustable for PG communication, max. usable for OP communication	31 1 1 31 31 1 1 1 31 30
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 overall usable for PG communication reserved for PG communication adjustable for PG communication, min. adjustable for PG communication, max. usable for OP communication reserved for OP communication adjustable for OP communication, min. adjustable for OP communication, max. usable for S7 basic communication reserved for S7 basic communication adjustable for S7 basic communication, min. 	31 1 1 31 31 31 1 1 1 31 30 0 0 0 X1 as a MPI, max. 10; X1 as DP Master max. 24; X1 as DP Slave
 overall usable for PG communication reserved for PG communication adjustable for PG communication, min. adjustable for PG communication, max. usable for OP communication reserved for OP communication adjustable for OP communication, min. adjustable for OP communication, max. usable for S7 basic communication reserved for S7 basic communication adjustable for S7 basic communication, min. adjustable for S7 basic communication, max. 	31 1 1 31 31 31 1 1 1 31 30 0 0 0 0 X1 as a MPI, max. 10; X1 as DP Master max. 24; X1 as DP Slave (active) max. 14; X2 as DP Master max. 24; X2 as DP Slave (active)
 overall usable for PG communication reserved for PG communication adjustable for PG communication, min. adjustable for PG communication, max. usable for OP communication reserved for OP communication adjustable for OP communication, min. adjustable for OP communication, max. usable for S7 basic communication reserved for S7 basic communication adjustable for S7 basic communication, min. adjustable for S7 basic communication, max. usable for routing 	31 1 1 31 31 31 1 1 1 31 30 0 0 0 X1 as a MPI, max. 10; X1 as DP Master max. 24; X1 as DP Slave
 overall usable for PG communication reserved for PG communication adjustable for PG communication, min. adjustable for PG communication, max. usable for OP communication reserved for OP communication adjustable for OP communication, min. adjustable for OP communication, max. usable for S7 basic communication reserved for S7 basic communication, min. adjustable for S7 basic communication, min. 	31 1 1 31 31 31 1 1 1 31 30 0 0 0 0 X1 as a MPI, max. 10; X1 as DP Master max. 24; X1 as DP Slave (active) max. 14; X2 as DP Master max. 24; X2 as DP Slave (active)
 overall usable for PG communication reserved for PG communication adjustable for PG communication, min. adjustable for PG communication, max. usable for OP communication reserved for OP communication adjustable for OP communication, min. adjustable for OP communication, max. usable for S7 basic communication reserved for S7 basic communication adjustable for S7 basic communication, min. adjustable for S7 basic communication, max. usable for routing 	31 1 1 31 31 31 1 1 1 31 30 0 0 0 X1 as a MPI, max. 10; X1 as DP Master max. 24; X1 as DP Slave (active) max. 14; X2 as DP Master max. 24; X2 as DP Slave (active) max. 14
overall usable for PG communication — reserved for PG communication, min. — adjustable for PG communication, max. usable for OP communication, max. usable for OP communication — reserved for OP communication, min. — adjustable for OP communication, min. — adjustable for OP communication, max. usable for S7 basic communication — reserved for S7 basic communication — adjustable for S7 basic communication — adjustable for S7 basic communication, min. — adjustable for S7 basic communication, max. usable for routing S7 message functions Number of login stations for message functions, max.	31 1 1 31 31 31 1 1 1 31 30 0 0 0 X1 as a MPI, max. 10; X1 as DP Master max. 24; X1 as DP Slave (active) max. 14; X2 as DP Master max. 24; X2 as DP Slave (active) max. 14 32; Depending on the configured connections for PG/OP and S7 basic communication
overall usable for PG communication — reserved for PG communication, min. — adjustable for PG communication, max. usable for OP communication, max. usable for OP communication — reserved for OP communication, min. — adjustable for OP communication, min. — adjustable for OP communication, max. usable for S7 basic communication — reserved for S7 basic communication — adjustable for S7 basic communication — adjustable for S7 basic communication, min. — adjustable for S7 basic communication, max. usable for routing S7 message functions Number of login stations for message functions, max. Process diagnostic messages	31 1 1 31 31 31 31 31 30 0 0 0 X1 as a MPI, max. 10; X1 as DP Master max. 24; X1 as DP Slave (active) max. 14; X2 as DP Master max. 24; X2 as DP Slave (active) max. 14 32; Depending on the configured connections for PG/OP and S7 basic communication Yes
overall usable for PG communication — reserved for PG communication, min. — adjustable for PG communication, max. usable for OP communication, max. usable for OP communication — reserved for OP communication, min. — adjustable for OP communication, min. — adjustable for OP communication, max. usable for S7 basic communication — reserved for S7 basic communication — adjustable for S7 basic communication — adjustable for S7 basic communication, min. — adjustable for S7 basic communication, max. usable for routing S7 message functions Number of login stations for message functions, max.	31 1 1 31 31 31 1 1 1 31 30 0 0 0 X1 as a MPI, max. 10; X1 as DP Master max. 24; X1 as DP Slave (active) max. 14; X2 as DP Master max. 24; X2 as DP Slave (active) max. 14 32; Depending on the configured connections for PG/OP and S7 basic communication
overall usable for PG communication — reserved for PG communication, min. — adjustable for PG communication, max. usable for OP communication, max. usable for OP communication — reserved for OP communication, min. — adjustable for OP communication, min. — adjustable for OP communication, max. usable for S7 basic communication — reserved for S7 basic communication — adjustable for S7 basic communication — adjustable for S7 basic communication, min. — adjustable for S7 basic communication, max. • usable for routing S7 message functions Number of login stations for message functions, max. Process diagnostic messages	31 1 1 31 31 31 31 31 30 0 0 0 X1 as a MPI, max. 10; X1 as DP Master max. 24; X1 as DP Slave (active) max. 14; X2 as DP Master max. 24; X2 as DP Slave (active) max. 14 32; Depending on the configured connections for PG/OP and S7 basic communication Yes
overall usable for PG communication — reserved for PG communication — adjustable for PG communication, min. — adjustable for PG communication, max. usable for OP communication — reserved for OP communication — adjustable for OP communication, min. — adjustable for OP communication, max. usable for S7 basic communication — reserved for S7 basic communication — adjustable for S7 basic communication — adjustable for S7 basic communication, min. — adjustable for S7 basic communication, max. • usable for routing S7 message functions Number of login stations for message functions, max. Process diagnostic messages simultaneously active Alarm-S blocks, max.	31 1 1 31 31 31 31 31 30 0 0 0 X1 as a MPI, max. 10; X1 as DP Master max. 24; X1 as DP Slave (active) max. 14; X2 as DP Master max. 24; X2 as DP Slave (active) max. 14 32; Depending on the configured connections for PG/OP and S7 basic communication Yes
• overall • usable for PG communication — reserved for PG communication, min. — adjustable for PG communication, max. • usable for OP communication — reserved for OP communication — reserved for OP communication — adjustable for OP communication, min. — adjustable for OP communication, max. • usable for S7 basic communication — reserved for S7 basic communication — adjustable for S7 basic communication — adjustable for S7 basic communication, min. — adjustable for S7 basic communication, max. • usable for routing S7 message functions Number of login stations for message functions, max. Process diagnostic messages simultaneously active Alarm-S blocks, max. Test commissioning functions	31 1 31 31 31 31 1 1 1 31 30 0 0 0 X1 as a MPI, max. 10; X1 as DP Master max. 24; X1 as DP Slave (active) max. 14; X2 as DP Master max. 24; X2 as DP Slave (active) max. 14 32; Depending on the configured connections for PG/OP and S7 basic communication Yes 300

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
Ambient conditions	130
Ambient temperature during operation • min.	0 °C
	60 °C
• max.	60 C
configuration / header	
Configuration software	
• STEP 7	Yes; STEP 7 V5.5 + SP1 or higher or STEP 7 V5.3 + SP2 or higher with HSP 203
STEP 7 Lite	No
configuration / programming / header	
Command set	see instruction list
 Nesting levels 	8
System functions (SEC)	
 System functions (SFC) 	see instruction list
System function blocks (SFB)	see instruction list see instruction list
System function blocks (SFB) Programming language	see instruction list
System function blocks (SFB) Programming language — LAD	see instruction list Yes
 System function blocks (SFB) Programming language LAD FBD 	Yes Yes
System function blocks (SFB) Programming language — LAD — FBD — STL	Yes Yes Yes
System function blocks (SFB) Programming language LAD FBD STL SCL	Yes Yes Yes Yes Yes Yes
 System function blocks (SFB) Programming language — LAD — FBD — STL — SCL — CFC 	Yes Yes Yes Yes Yes Yes Yes Yes
● System function blocks (SFB) Programming language — LAD — FBD — STL — SCL — CFC — GRAPH	Yes Yes Yes Yes Yes Yes Yes Yes Yes
● System function blocks (SFB) Programming language — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph®	Yes Yes Yes Yes Yes Yes Yes Yes
System function blocks (SFB) Programming language — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph® Know-how protection	Yes Yes Yes Yes Yes Yes Yes Yes Yes
System function blocks (SFB) Programming language — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph® Know-how protection • User program protection/password protection	Yes
System function blocks (SFB) Programming language — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph® Know-how protection • User program protection/password protection • Block encryption	Yes
System function blocks (SFB) Programming language — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph® Know-how protection • User program protection/password protection • Block encryption	Yes
System function blocks (SFB) Programming language — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph® Know-how protection • User program protection/password protection • Block encryption	Yes
System function blocks (SFB) Programming language — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph® Know-how protection • User program protection/password protection • Block encryption Dimensions	Yes
System function blocks (SFB) Programming language — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph® Know-how protection • User program protection/password protection • Block encryption Dimensions Width	Yes
System function blocks (SFB) Programming language — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph® Know-how protection • User program protection/password protection • Block encryption Dimensions Width Height	Yes
System function blocks (SFB) Programming language — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph® Know-how protection • User program protection/password protection • Block encryption Dimensions Width Height Depth	Yes