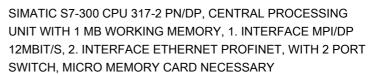
Data sheet





General information	
Hardware product version	01
Firmware version	V3.2
Engineering with	
Programming package	STEP7 V 5.5 or higher
Supply voltage	
Rated value (DC)	
• 24 V DC	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
external protection for power supply lines	2 A min.
(recommendation)	
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 A ² ·s
Power loss	
Power loss, typ.	4.65 W
Memory	
Work memory	
Integrated	1 024 kbyte
• expandable	No
 Size of retentive memory for retentive data blocks 	256 kbyte
Load memory	
• Plug-in (MMC)	Yes
• Plug-in (MMC), max.	8 Mbyte
 Data management on MMC (after last programming), min. 	10 y
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	
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
ОВ	
• 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 - isochronous mode is possible either on DP or PROFINET IO (not simultaneously)
 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	
• per priority class	16
 additional within an error OB 	4
Counters, timers and their retentivity	

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	
— can be set	Yes
— lower limit	0
— upper limit	999
IEC counter	
• present	Yes
• Type	SFB
Number	Unlimited (limited only by RAM capacity)
S7 times	
Number	512
Retentivity	
— can be set	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 in total	All, max. 256 KB
Flag	
• Number, max.	4 096 byte
Retentivity available	Yes; From MB 0 to MB 4095
Retentivity preset	MB 0 to MB 15
 Number of clock memories 	8; 1 memory byte
Data blocks	
Number, max.	2 048; 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.	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	
 Number of subprocess images, max. 	1; With PROFINET IO, the length of the user data is limited to 1600 bytes
Digital channels	
• Inputs	65 536
— of which central	1 024
Outputs	65 536
— of which central	1 024
Analog channels	
● Inputs	4 096
— of which central	256
Outputs	4 096
— 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)	
• FM	8
 CP, point-to-point 	8
• CP, LAN	10
Rack	
• Racks, max.	4
Modules per rack, max.	8
Time of day	
Clock	
Hardware clock (real-time clock)	Yes
 retentive 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	Clock continues to run with the time at which the power failure
period	occurred
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 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
Digital inputs	
Number of digital inputs	0
Digital outputs	
Number of digital outputs	0
Analog inputs	
Thatog inputs	

Number of analog inputs	0
Analog outputs	
Number of analog outputs	0
Interfaces	4.0 11: 1MBI / BBOSIBIIO BB
Number of RS 485 interfaces	1; Combined MPI / PROFIBUS DP
Number of RS 422 interfaces	0
Industrial Ethernet	
 Number of industrial Ethernet interfaces 	1; 2 ports (switch) RJ45
1. Interface	
Interface type	Integrated RS 485 interface
Physics	RS 485
Isolated	Yes
Power supply to interface (15 to 30 V DC), max.	200 mA
Functionality	
• 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
	Yes
 Equidistance mode support 	100

— 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 	8
simultaneously activated/deactivated, max.	
 — Direct data exchange (slave-to-slave 	Yes; As subscriber
communication)	
— 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
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
	140
Transfer memory	244 byte
— Inputs	244 byte
— Outputs	Z44 Dyte
2. Interface	
Interface type	PROFINET
Physics	Ethernet RJ45
Isolated	Yes
integrated switch	Yes
Number of ports	2
automatic detection of transmission rate	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, typ. 	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
Number of connectable IO Devices for RT,	128
max.	
— 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	Yes
Shared device	Yes
Prioritized startup	Yes
 Number of IO Devices, max. 	32
Activation/deactivation of IO Devices	Yes
 Number of IO Devices that can be simultaneously activated/deactivated, max. 	8
 IO Devices changing during operation (partner ports), supported 	Yes
 Number of IO Devices per tool, max. 	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
— S7 communication	Yes; with loadable FBs, max. configurable connections: 16, max. number of instances: 32
— Isochronous mode	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.	8 kbyte
— Outputs, max.	8 kbyte
— User data consistency, max.	1 024 byte
PROFINET IO Device	
Services	
— PG/OP communication	Yes
— Routing	Yes
— S7 communication	Yes; with loadable FBs, max. configurable connections: 16, max. number of instances: 32
— Isochronous mode	No
— Open IE communication	Yes; Via TCP/IP, ISO on TCP, and UDP
— IRT	Yes
— PROFlenergy	Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB for I-Device
— Shared device	Yes
 Number of IO Controllers with shared 	2
device, max.	
Transfer memory	
— Inputs, max.	1 440 byte; Per IO Controller with shared device
— Outputs, max.	1 440 byte; Per IO Controller with shared device
Submodules	
— Number, max.	64
— User data per submodule, max.	1 024 byte
PROFINET CBA	
acyclic transmission	Yes
cyclic transmission	Yes
Open IE communication	
Number of connections, max.	16
 Local port numbers used at the system end 	0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535
 Keep-alive function, supported 	Yes

Sectionous operation (application synchronized up to terminal) Yes; Via PROFIBUS DP or PROFINET interface	Isochronous mode	
PGOP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max. • Number of GD packets, rransmitter, max. • Number of GD packets, rransmitter, max. • Size of GD packets, max. • Size of GD packet	Isochronous operation (application synchronized up	Yes; Via PROFIBUS DP or PROFINET interface
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. * Size of GD packets, max. * Siz	to terminal)	
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. * Size of GD packets, max. * Siz	Communication functions	
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Open IE communication • TCP/IP — Number of connections, max. — Data length for connection type 01H, max. — Data length for connection type 11H, max. — Several passive connections per port, supported • ISO-on-TCP (RFC1006) — Number of connections, max. — Data length, max. • UDP — Number of connections, max. • UDP — Number of connections, max. — Data length, max. 16 32 768 byte Yes; via integrated PROFINET interface and loadable FBs 16 32 768 byte Yes; via integrated PROFINET interface and loadable FBs 16 16 16 16 17 17 18 19 19 19 19 19 19 19 19 19	S5 compatible communication	
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 Number of connections, max. Data length for connection type 01H, max. Data length for connection type 11H, max. Several passive connections per port, supported ISO-on-TCP (RFC1006) Number of connections, max. Data length, max. UDP Number of connections, max. UDP Number of connections, max. UDP Yes; via integrated PROFINET interface and loadable FBs Yes; via integrated PROFINET interface and loadable FBs 16 Yes; via integrated PROFINET interface and loadable FBs 16 1472 byte 	Open IE communication	
 Data length for connection type 01H, max. Data length for connection type 11H, max. Several passive connections per port, supported ISO-on-TCP (RFC1006) Number of connections, max. Data length, max. UDP Number of connections, max. UDP Number of connections, max. Tes; via integrated PROFINET interface and loadable FBs Yes; via integrated PROFINET interface and loadable FBs Tes; via integrated PROFINET interface and loadable FBs UDP Data length, max. 16 1472 byte 	• TCP/IP	Yes; via integrated PROFINET interface and loadable FBs
 — Data length for connection type 11H, max. — Several passive connections per port, supported ◆ ISO-on-TCP (RFC1006) — Number of connections, max. — Data length, max. ◆ UDP — Number of connections, max. 16 — Yes; via integrated PROFINET interface and loadable FBs — Yes; via integrated PROFINET interface and loadable FBs — Number of connections, max. — Data length, max. 16 — Number of connections, max. — Data length, max. 1472 byte 	— Number of connections, max.	16
 — Several passive connections per port, supported • ISO-on-TCP (RFC1006) — Number of connections, max. — Data length, max. • UDP — Number of connections, max. • UDP — Number of connections, max. — Data length, max. — Data length, max. 16 — Number of connections, max. — Data length, max. 16 — Data length, max. 1472 byte 	 Data length for connection type 01H, max. 	1 460 byte
supported ISO-on-TCP (RFC1006) Number of connections, max. Data length, max. UDP Number of connections, max. Number of connections, max. Data length, max. 16 Yes; via integrated PROFINET interface and loadable FBs Yes; via integrated PROFINET interface and loadable FBs Number of connections, max. 16 1472 byte	— Data length for connection type 11H, max.	32 768 byte
 Number of connections, max. Data length, max. UDP Ves; via integrated PROFINET interface and loadable FBs Number of connections, max. Data length, max. 16 1472 byte 	• • • •	Yes
 Number of connections, max. Data length, max. UDP Number of connections, max. Number of connections, max. Data length, max. 16 1472 byte 	• ISO-on-TCP (RFC1006)	Yes; via integrated PROFINET interface and loadable FBs
 — Data length, max. ■ UDP — Number of connections, max. — Data length, max. 32 768 byte Yes; via integrated PROFINET interface and loadable FBs — 16 — Data length, max. 1 472 byte 		16
 ◆ UDP Yes; via integrated PROFINET interface and loadable FBs — Number of connections, max. — Data length, max. 16 1 472 byte 		32 768 byte
 Number of connections, max. Data length, max. 16 1 472 byte 	-	
— Data length, max. 1 472 byte		
	Web server	

Number of HTTP clients User-defined websites PROFINET CBA (at set setpoint communication load) Setpoint for the CPU communication load Number of remote interconnection partners Number of functions, master/slave Total of all master/slave Total of all master/slave Data length of all incoming connections master/slave, max. Data length of all outgoing connections master/slave, max. Number of device-internal and PROFIBUS interconnections, max. Data length of evice-internal und PROFIBUS interconnections with acyclic transmission — Sampling frequency: Sampling time, min. Number of incoming interconnections — Number of outgoing interconnections — Number of outgoing interconnections — Data length of all outgoing interconnections, max. Data length of all outgoing interconnections, max. Data length of all outgoing interconnections, max. Data length of all outgoing interconnections with cyclic transmission — Transmission frequency: Transmission — Transmission frequency: Transmission — Transmission frequency: Transmission — Interval, min. Number of outgoing interconnections — Data length of all outgoing interconnections, max. Data length of all outgoing Number of Number of Stations that can log on for HMI variables (PN OPC/IMsp) HMI variables via PROFINET (acyclic) Number of Stations that	• supported	Yes
User-defined websites	• •	5
Setpoint for the CPU communication load Number of remote interconnection partners Number of functions, master/slave Total of all master/slave connections Data length of all lincoming connections master/slave, max. Data length of all lougoing connections master/slave, max. Data length of device-internal and PROFIBUS interconnections, max. Data length of device-internal und PROFIBUS interconnections, max. Data length per connection, max. Data length per connections with acyclic transmission — Sampling frequency: Sampling time, min. — Number of interconnections with acyclic transmission — Data length of all incoming interconnections, max. — Data length of all outgoing interconnections with cyclic transmission — Transmission frequency: Transmission interval, min. — Number of outgoing interconnections — Data length of all incoming interconnections, max. — Data length of all incoming interconnections, max. — Data length of all outgoing interconnections, max. — Data length of all incoming interconnections, max. — Data length of all outgoing interconnections of all incoming interconnections, max. — Data length of all outgoing interconnections, max. — Data length of all outgoing interconnections — Number of stations that can log on for HMI variables (PN OPC/fMap) — HMI variables pdating — Number of stations that can log on for HMI variables (PN OPC/fMap) — HMI variables pdating — Number of HMI		Yes
Number of remote interconnection partners Number of functions, master/slave Total of all master/slave connections Data length of all incoming connections master/slave, max. Data length of all outgoing connections master/slave, max. Number of device-internal and PROFIBUS interconnections Data length of device-internal und PROFIBUS interconnections, max. Data length per connection, max. Panta length per connection, max. Remote interconnections with acyclic transmission Sampling frequency: Sampling time, min. Number of incoming interconnections Number of outgoing interconnections Data length of all incoming interconnections, max. Data length of all outgoing interconnections, max. Data length of all outgoing interconnections, with cyclic transmission Transmission frequency: Transmission Transmission frequency: Transmission Transmission frequency: Transmission Data length of all incoming interconnections with cyclic transmission Transmission frequency: Transmission Data length of all outgoing interconnections, max. 450 byte HMI variables via PROFINET (acyclic) Number of HMI variables Data length of all HMI variables, max. Data length of all HMI variables, max.	PROFINET CBA (at set setpoint communication load)	
Number of functions, master/slave Total of all master/slave connections Data length of all incoming connections master/slave, max. Data length of all outgoing connections master/slave, max. Number of device-internal and PROFIBUS interconnections Data length of device-internal und PROFIBUS interconnections, max. Data length of econection, max. Data length of econection, max. Pata length of econection, max. Number of outgoing interconnections - Sampling frequency: Sampling time, min. Number of outgoing interconnections - Number of outgoing interconnections - Number of outgoing interconnections - Data length of all incoming interconnections, max. Data length of all outgoing interconnections, max. Data length per connection, max. 1 400 byte Remote interconnections and - Transmission frequency: Transmission - Transmission frequency: Transmission - Transmission frequency: Transmission interval, min Number of incoming interconnections - Data length of all incoming interconnections, max. Data length of all incoming interconnections, max. - Data length of all incoming interconnections, max. - Data length of all outgoing interconnections, max. - Data length or connection, max. 450 byte HMI variables via PROFINET (acyclic) - Number of HMI variables - Data length of all HMI variables, max. 200 Data length of all HMI variables - Data length of all HMI variables, max. 200 byte	Setpoint for the CPU communication load	50 %
Total of all master/slave connections Data length of all incoming connections master/slave, max. Data length of all outgoing connections master/slave, max. Number of device-internal and PROFIBUS interconnections Data length of device-internal und PROFIBUS interconnections, max. Data length per connection, max. Pata length per connection, max. Data length of device-internal und PROFIBUS interconnections, max. Data length of elungting interconnections Number of incoming interconnections Data length of all incoming interconnections, max. Data length of all incoming interconnections, max. Data length of all incoming interconnections with cyclic transmission Transmission frequency: Transmission interval, min. Number of outgoing interconnections Data length of all incoming interconnections with cyclic transmission Transmission frequency: Transmission interval, min. Number of outgoing interconnections Data length of all incoming interconnections, max. Data length of all incoming interconnections, max. Data length of all incoming interconnections, max. Data length of all outgoing interconnections wax. Data length of all outgoing interconnections. Data length of all outgoing interconnections. Data length of all outgoing interconnections. Data length o	Number of remote interconnection partners	32
Data length of all incoming connections master/slave, max. Data length of all outgoing connections master/slave, max. Data length of device-internal and PROFIBUS interconnections Data length of device-internal and PROFIBUS interconnections, max. Data length per connection, max. Data length per connection, max. Data length per connections with acyclic transmission Sampling frequency: Sampling time, min. Number of incoming interconnections Number of outgoing interconnections Data length of all incoming interconnections, max. Data length of all outgoing interconnections, max. Data length or connection, max. 1 400 byte 2 000 byte interconnections, max. Data length of all outgoing interconnections with cyclic transmission Transmission frequency: Transmission Transmission frequency: Transmission Transmission frequency: Transmission Data length of all incoming interconnections, max. Data length of all incoming interconnections, max. Data length of all outgoing interconnections wax. Data length of all outgoing interconnections. Data length of all outgoing interconnections. Data length of all outgoing interconnections. Data length of a	Number of functions, master/slave	30
master/slave, max. Data length of all outgoing connections master/slave, max. Number of device-internal and PROFIBUS interconnections. Data length of device-internal und PROFIBUS interconnections. max. Data length per connection, max. Data length of incoming interconnections 100 Number of incoming interconnections 100 Number of outgoing interconnections 100 Data length of all incoming 2000 byte interconnections, max. Data length of all outgoing 2000 byte interconnections, max. Data length of all outgoing 2000 byte interconnections, max. Data length per connection, max. 1400 byte Remote interconnections with cyclic transmission Transmission frequency: Transmission interval, min. Number of outgoing interconnections 200 Number of outgoing interconnections 200 Number of outgoing interconnections 200 Data length of all incoming interconnections 200 Number of outgoing interconnections 200 Data length of all outgoing 2000 byte interconnections, max. Data length of all outgoing 2000 byte interconnections, max. Data length of all outgoing 300 byte interconnections, max. Data length of all outgoing 300 byte interconnections, max. Data length of all outgoing 300 byte interconnections, max. Data length of all outgoing 300 byte interconnections, max. Data length of all outgoing 300 byte interconnections, max. Data length of all outgoing 300 byte interconnections and POPC/Map) Number of stations that can log on for HMI variables (PN OPC/Map) HMI variable updating 500 ms Number of HMI variables, max. 2000 byte	Total of all master/slave connections	1 000
master/slave, max. Number of device-internal and PROFIBUS interconnections Data length of device-internal und PROFIBUS interconnections, max. Data length per connection, max. 1 400 byte Remote interconnections with acyclic transmission Sampling frequency: Sampling time, min. Number of incoming interconnections Number of outgoing interconnections Data length of all incoming interconnections Data length of all outgoing interconnections, max. Data length per connection, max. 1 400 byte Remote interconnections, max. Transmission frequency: Transmission interval, min. Number of outgoing interconnections Transmission frequency: Transmission interval, min. Number of outgoing interconnections Data length of all outgoing 2000 byte interconnections, max. Data length of all outgoing 2000 byte interconnections Data length of all outgoing 2000 byte interconnections, max. Data length of all outgoing 2000 byte interconnections, max. Data length of all outgoing 2000 byte interconnections, max. Data length of all outgoing 3; 2x PN OPC/1x iMap variables (PN OPC/iMap) HMI variable updating 500 ms Number of HMI variables, max. 2000 byte		4 000 byte
interconnections Data length of device-internal und PROFIBUS interconnections, max. Data length per connection, max. Tampling frequency: Sampling time, min. Number of incoming interconnections Data length of all incoming interconnections Data length of all outgoing interconnections, max. Data length of all outgoing interconnections, max. Data length of all outgoing interconnection, max. Data length of all outgoing interconnections interconnections, max. Data length of all outgoing interconnection, max. 1 400 byte Remote interconnections with cyclic transmission Transmission frequency: Transmission Transmission frequency: Transmission interval, min. Number of outgoing interconnections Data length of all incoming interconnections Data length of all outgoing interconnections, max. Data length of all outgoing interconnections, max. Data length per connection, max. 450 byte HMI variables via PROFINET (acyclic) Number of HMI variables Data length of Ill HMI variables, max. 2000 Data length of Ill HMI variables, max.		4 000 byte
interconnections, max. Data length per connection, max. 1 400 byte Remote interconnections with acyclic transmission — Sampling frequency: Sampling time, min. Number of incoming interconnections — Number of outgoing interconnections — Data length of all incoming interconnections, max. — Data length of all outgoing interconnections, max. — Data length per connection, max. 1 400 byte Remote interconnections with cyclic transmission — Transmission frequency: Transmission interval, min. — Number of incoming interconnections — Data length of all incoming interconnections, max. — Data length of all incoming interconnections, max. — Data length of all outgoing interconnections, max. — Data length of all outgoing interconnections, max. — Data length of all outgoing interconnections, max. — Data length per connection, max. 450 byte HMI variables via PROFINET (acyclic) — Number of stations that can log on for HMI variables (PN OPC/fiMap) — HMI variable updating — Number of HMI variables — Data length of all HMI variables, max. 200 2000 byte		500
Remote interconnections with acyclic transmission - Sampling frequency: Sampling time, min. - Number of incoming interconnections - Number of outgoing interconnections - Data length of all incoming interconnections, max. - Data length of all outgoing interconnections, max. - Data length per connection, max. - Data length per connection, max. 1 400 byte Remote interconnections with cyclic transmission - Transmission frequency: Transmission interval, min. - Number of incoming interconnections - Number of outgoing interconnections - Data length of all incoming interconnections, max. - Data length of all outgoing interconnections, max. - Data length of all outgoing interconnections, max. - Data length per connection, max. 450 byte HMI variables via PROFINET (acyclic) - Number of stations that can log on for HMI variables (PN OPC/fiMap) - HMI variable updating - Number of HMI variables - Data length of all HMI variables, max. 2 000 byte	_	4 000 byte
- Sampling frequency: Sampling time, min Number of incoming interconnections - Number of outgoing interconnections - Data length of all incoming interconnections, max Data length of all outgoing interconnections, max Data length per connection, max Data length per connection, max Data length per connections with cyclic transmission - Transmission frequency: Transmission interval, min Number of incoming interconnections - Data length of all incoming interconnections, max Data length of all incoming interconnections, max Data length of all outgoing interconnections, max Data length of all outgoing interconnections, max Data length per connection, max Data length of all outgoing interconnections wax Data length of Sattions that can log on for HMI variables (PN OPC/fMap) - HMI variable updating - Number of HMI variables - Data length of all HMI variables, max Data length of all HMI variables, max.	 Data length per connection, max. 	1 400 byte
- Number of incoming interconnections - Number of outgoing interconnections - Data length of all incoming interconnections, max Data length of all outgoing interconnections, max Data length per connection, max Data length per connection, max Data length per connection, max Transmission frequency: Transmission - Transmission frequency: Transmission interval, min Number of incoming interconnections - Number of outgoing interconnections - Data length of all incoming interconnections, max Data length of all outgoing interconnections, max Data length per connection, max Data length per connection, max Data length per connection, max Data length of stations that can log on for HMI variables (PN OPC/IMap) - HMI variable updating - Number of HMI variables - Data length of all HMI variables, max Data length of all HMI variables, max.	Remote interconnections with acyclic transmission	
- Number of outgoing interconnections - Data length of all incoming interconnections, max. - Data length of all outgoing 2 000 byte interconnections, max. - Data length per connection, max. 1 400 byte Remote interconnections with cyclic transmission - Transmission frequency: Transmission interval, min Number of incoming interconnections 200 - Number of outgoing interconnections 200 - Data length of all incoming 2 000 byte interconnections, max Data length of all outgoing interconnections 2 000 byte interconnections, max Data length of all outgoing 3 2 000 byte interconnections, max 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) - HMI variable updating 500 ms - Number of HMI variables 200 - Data length of all HMI variables, max. 2 000 byte	 — Sampling frequency: Sampling time, min. 	500 ms
Data length of all incoming interconnections, max. Data length of all outgoing interconnections, max. Data length per connection, max. Data length per connection, max. Data length per connection, max. 1 400 byte Remote interconnections with cyclic transmission Transmission frequency: Transmission Transmission frequency: Transmission interval, min. Number of incoming interconnections Number of outgoing interconnections Data length of all incoming interconnections, max. Data length of all outgoing interconnections, max. Data length per connection, max. Data length per connection for HMI variables via PROF/Map) Number of stations that can log on for HMI variables (PN OPC/Map) HMI variable updating Number of HMI variables Data length of all HMI variables, max. 2 000 byte	 Number of incoming interconnections 	100
interconnections, max. — Data length of all outgoing interconnections, max. — Data length per connection, max. 1 400 byte Remote interconnections with cyclic transmission — Transmission frequency: Transmission — Transmission frequency: Transmission interval, min. — Number of incoming interconnections — Number of outgoing interconnections — Data length of all incoming interconnections, max. — Data length of all outgoing interconnections, max. — 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) — HMI variables updating — Number of HMI variables — Data length of all HMI variables, max. 2 000 byte	 Number of outgoing interconnections 	100
interconnections, max. — Data length per connection, max. 1 400 byte Remote interconnections with cyclic transmission — Transmission frequency: Transmission interval, min. — Number of incoming interconnections — Number of outgoing interconnections — Data length of all incoming interconnections, max. — Data length of all outgoing interconnections, max. — 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) — HMI variable updating — Number of HMI variables — Number of HMI variables, max. 2 000 byte		2 000 byte
Remote interconnections with cyclic transmission — Transmission frequency: Transmission interval, min. — Number of incoming interconnections 200 — Number of outgoing interconnections 200 — Data length of all incoming 2 000 byte interconnections, max. — Data length of all outgoing 2 000 byte interconnections, max. — Data length of all outgoing 2 000 byte interconnections, max. — 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) — HMI variable updating 500 ms — Number of HMI variables 200 — Data length of all HMI variables, max. 2 000 byte		2 000 byte
— Transmission frequency: Transmission interval, min. — Number of incoming interconnections 200 — Number of outgoing interconnections 200 — Data length of all incoming 2 000 byte interconnections, max. — Data length of all outgoing 2 000 byte interconnections, max. — 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) — HMI variable updating 500 ms — Number of HMI variables 200 — Data length of all HMI variables, max. 2 000 byte	 Data length per connection, max. 	1 400 byte
interval, min. — Number of incoming interconnections — Number of outgoing interconnections — Data length of all incoming interconnections, max. — Data length of all outgoing interconnections, max. — Data length of all outgoing interconnections, max. — 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) — HMI variable updating — Number of HMI variables — Number of HMI variables — Data length of all HMI variables, max. 200 — Data length of all HMI variables, max.	Remote interconnections with cyclic transmission	
 Number of outgoing interconnections Data length of all incoming interconnections, max. Data length of all outgoing interconnections, max. Data length per connection, max. Data length per connection, max. HMI variables via PROFINET (acyclic) Number of stations that can log on for HMI variables (PN OPC/iMap) HMI variable updating Number of HMI variables Number of HMI variables Data length of all HMI variables, max. 2000 byte 		10 ms
 — Data length of all incoming interconnections, max. — Data length of all outgoing interconnections, max. — Data length per connection, max. — 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) — HMI variable updating — Number of HMI variables — Number of HMI variables — Data length of all HMI variables, max. 2 000 byte 	 Number of incoming interconnections 	200
interconnections, max. — Data length of all outgoing interconnections, max. — 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) — HMI variable updating — Number of HMI variables — Data length of all HMI variables, max. 2 000 byte	 Number of outgoing interconnections 	200
interconnections, max. — 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) — HMI variable updating — Number of HMI variables — Data length of all HMI variables, max. 450 byte 3; 2x PN OPC/1x iMap 500 ms 200 200	5	2 000 byte
HMI variables via PROFINET (acyclic) — Number of stations that can log on for HMI variables (PN OPC/iMap) — HMI variable updating — Number of HMI variables — Data length of all HMI variables, max. 3; 2x PN OPC/1x iMap 500 ms 200 200		2 000 byte
 Number of stations that can log on for HMI variables (PN OPC/iMap) HMI variable updating Number of HMI variables Data length of all HMI variables, max. 3; 2x PN OPC/1x iMap 500 ms 200 200 byte 	 Data length per connection, max. 	450 byte
variables (PN OPC/iMap) — HMI variable updating 500 ms — Number of HMI variables 200 — Data length of all HMI variables, max. 2 000 byte	HMI variables via PROFINET (acyclic)	
 — Number of HMI variables — Data length of all HMI variables, max. 200 2000 byte 	_	3; 2x PN OPC/1x iMap
— Data length of all HMI variables, max. 2 000 byte	— HMI variable updating	500 ms
	 Number of HMI variables 	200
PROFIBUS proxy functionality	 Data length of all HMI variables, max. 	2 000 byte
	PROFIBUS proxy functionality	

Yes	
16	
240 byte; Slave-dependent	
Z to byte, clave appriability	
32	
31	
1	
1	
31	
31	
1	
1	
31	
30	
0	
0	
· ·	
30	
40	
16	
0	
0	
16	
32	
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	
32; Depending on the configured connections for PG/OP and S7 basic communication	
Yes	
300	
Yes; Up to 2 simultaneously	
Yes	
Yes 4	
4	
4 Yes	
Yes Inputs, outputs, memory bits, DB, times, counters	
Yes Inputs, outputs, memory bits, DB, times, counters 30	

• Fareira	Yes
• Forcing	
• Forcing, variables	Inputs, outputs
Number of variables, max.	10
Diagnostic buffer	\ <u>\</u>
• present	Yes
 Number of entries, max. 	500
— can be set	No
— of which powerfail-proof	100; Only the last 100 entries are retained
 Number of entries readable in RUN, max. 	499
— can be set	Yes; From 10 to 499
— preset	10
Service data	
• can be read out	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	60 °C
Configuration	
Configuration software	Ver VE E ankinkan
• STEP 7	Yes; V5.5 or higher
Programming	
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
Dimonsions	
Dimensions Width	40 mm
Height	125 mm
Depth	130 mm
Dop	100 11111

Weights Weight, approx. 340 g 24.07.2015 last modified: