SIEMENS

Data sheet



Spare part SIMATIC DP, CPU 1510SP-1 PN for ET 200SP, Central processing unit with Work memory 100 KB for program and 750 KB for data, 1st interface, PROFINET IRT with 3-port switch, 72 ns bit performance, SIMATIC Memory Card required, BusAdapter required for Port 1 and 2

General information		
Product type designation	CPU 1510SP-1 PN	
HW functional status	FS04	
Firmware version	V1.8	
Product function		
 Isochronous mode 	Yes; Only with PROFINET; with minimum OB 6x cycle of 625 µs	
Engineering with		
 STEP 7 TIA Portal configurable/integrated from version 	V13 SP1 Update 4	
Configuration control		
via dataset	Yes	
Control elements		
Mode selector switch	1	
Supply voltage		
Rated value (DC)	24 V	
permissible range, lower limit (DC)	19.2 V	
permissible range, upper limit (DC)	28.8 V	
Reverse polarity protection	Yes	
Mains buffering		
Mains/voltage failure stored energy time	5 ms	
Input current		
Current consumption (rated value)	0.6 A	
Inrush current, max.	4.7 A; Rated value	
l²t	0.14 A²·s	
Power		
Infeed power to the backplane bus	8.75 W	
Power loss		
Power loss, typ.	5.6 W	
Memory		
Number of slots for SIMATIC memory card	1	
SIMATIC memory card required	Yes	
Work memory		
• integrated (for program)	100 kbyte	
• integrated (for data)	750 kbyte	
Load memory		
Plug-in (SIMATIC Memory Card), max.	32 Gbyte	
Backup		
maintenance-free	Yes	
CPU processing times		
for bit operations, typ.	72 ns	
for word operations, typ.	86 ns	

for fixed point arithmetic, typ.	115 ns
for floating point arithmetic, typ.	461 ns
PU-blocks	
Number of elements (total)	2 000; Blocks (OB, FB, FC, DB) and UDTs
DB	
Number range	1 60 999; subdivided into: number range that can be used by the user: 1
	59 999, and number range of DBs created via SFC 86: 60 000 60 999
Size, max.	750 kbyte; For DBs with absolute addressing, the max. size is 64 KB
FB	
Number range	0 65 535
Size, max.	100 kbyte
FC	
Number range	0 65 535
Size, max.	100 kbyte
OB	
• Size, max.	100 kbyte
 Number of free cycle OBs 	100
 Number of time alarm OBs 	20
Number of delay alarm OBs	20
 Number of cyclic interrupt OBs 	20
 Number of process alarm OBs 	50
 Number of DPV1 alarm OBs 	3
 Number of isochronous mode OBs 	1
 Number of technology synchronous alarm OBs 	2
 Number of startup OBs 	100
 Number of asynchronous error OBs 	4
 Number of synchronous error OBs 	2
 Number of diagnostic alarm OBs 	1
Nesting depth	
 per priority class 	24
Counters, timers and their retentivity	
S7 counter	
Number	2 048
Retentivity	
— adjustable	Yes
IEC counter	
Number	Any (only limited by the main memory)
Retentivity	
— adjustable	Yes
S7 times	
Number	2 048
Retentivity	
— adjustable	Yes
IEC timer	
	Any (only limited by the main memory)
IEC timer	Any (only limited by the main memory)
IEC timer • Number	Any (only limited by the main memory) Yes
IEC timer ● Number Retentivity — adjustable	
IEC timer ● Number Retentivity — adjustable lata areas and their retentivity	Yes 128 kbyte; Available retentive memory for bit memories, timers, counters, DBs,
IEC timer ● Number Retentivity — adjustable lata areas and their retentivity	Yes
IEC timer • Number Retentivity — adjustable ata areas and their retentivity	Yes 128 kbyte; Available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 88 KB
IEC timer ● Number Retentivity — adjustable ata areas and their retentivity Retentive data area (incl. timers, counters, flags), max.	Yes 128 kbyte; Available retentive memory for bit memories, timers, counters, DBs,
IEC timer ● Number Retentivity — adjustable ata areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag	Yes 128 kbyte; Available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 88 KB
IEC timer ● Number Retentivity — adjustable ata areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag ● Size, max.	Yes 128 kbyte; Available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 88 KB 16 kbyte
IEC timer ■ Number Retentivity — adjustable lata areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag ■ Size, max. ■ Number of clock memories	Yes 128 kbyte; Available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 88 KB 16 kbyte
IEC timer ● Number Retentivity — adjustable lata areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag ● Size, max. ● Number of clock memories Data blocks	Yes 128 kbyte; Available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 88 KB 16 kbyte 8; 8 clock memory bit, grouped into one clock memory byte
IEC timer ● Number Retentivity — adjustable lata areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag ● Size, max. ● Number of clock memories Data blocks ● Retentivity adjustable	Yes 128 kbyte; Available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 88 KB 16 kbyte 8; 8 clock memory bit, grouped into one clock memory byte Yes
IEC timer ● Number Retentivity — adjustable lata areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag ■ Size, max. ■ Number of clock memories Data blocks ■ Retentivity adjustable ■ Retentivity preset	Yes 128 kbyte; Available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 88 KB 16 kbyte 8; 8 clock memory bit, grouped into one clock memory byte Yes
IEC timer ● Number Retentivity — adjustable ata areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag ● Size, max. ● Number of clock memories Data blocks ● Retentivity adjustable ● Retentivity preset Local data ● per priority class, max.	Yes 128 kbyte; Available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 88 KB 16 kbyte 8; 8 clock memory bit, grouped into one clock memory byte Yes No
■ Number Retentivity — adjustable Pata areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag ■ Size, max. ■ Number of clock memories Data blocks ■ Retentivity adjustable ■ Retentivity preset Local data	Yes 128 kbyte; Available retentive memory for bit memories, timers, counters, DBs and technology data (axes): 88 KB 16 kbyte 8; 8 clock memory bit, grouped into one clock memory byte Yes No

• Inputs	32 kbyte; All inputs are in the process image		
Outputs	32 kbyte; All outputs are in the process image		
per integrated IO subsystem			
— Inputs (volume)	8 kbyte		
— Outputs (volume)	8 kbyte		
per CM/CP			
— Inputs (volume)	8 kbyte		
— Outputs (volume)	8 kbyte		
Subprocess images			
Number of subprocess images, max.	32		
Address space per module			
Address space per module, max.	32 byte; For input and output data respectively		
Address space per station			
Address space per station, max.	1 280 byte; for central inputs and outputs; depending on configuration		
Hardware configuration			
Number of distributed IO systems	20		
Number of DP masters	20		
Via CM	1		
Number of IO Controllers	·		
	1		
• integrated	1		
• Via CM	0		
Rack	CALCELL CA modulos Logarias and de (annual and the		
Modules per rack, max.	64; CPU + 64 modules + server module (mounting width max. 1 m)		
Number of lines, max.	1		
PtP CM			
Number of PtP CMs	the number of connectable PtP CMs is only limited by the number of available slots		
Time of day	31013		
Clock			
• Type	Hardware clock		
Backup time	6 wk; At 40 °C ambient temperature, typically		
Deviation per day, max.	10 s; Typ.: 2 s		
Operating hours counter			
Number	16		
Clock synchronization			
supported	Yes		
 to DP, master 	Yes; Via CM DP module		
	1 Co, Via Givi Di Modulo		
• on DP, device	Yes; Via CM DP module		
• in AS, master			
	Yes; Via CM DP module		
• in AS, master	Yes; Via CM DP module Yes		
in AS, masterin AS, device	Yes; Via CM DP module Yes Yes		
in AS, masterin AS, deviceon Ethernet via NTP	Yes; Via CM DP module Yes Yes		
 in AS, master in AS, device on Ethernet via NTP Interfaces	Yes; Via CM DP module Yes Yes Yes		
 in AS, master in AS, device on Ethernet via NTP Interfaces Number of PROFINET interfaces	Yes; Via CM DP module Yes Yes Yes 1		
in AS, master in AS, device on Ethernet via NTP Interfaces Number of PROFINET interfaces Number of PROFIBUS interfaces	Yes; Via CM DP module Yes Yes Yes 1		
in AS, master in AS, device on Ethernet via NTP Interfaces Number of PROFINET interfaces Number of PROFIBUS interfaces 1. Interface Interface types	Yes; Via CM DP module Yes Yes Yes 1 1; Via CM DP module		
in AS, master in AS, device on Ethernet via NTP Interfaces Number of PROFINET interfaces Number of PROFIBUS interfaces 1. Interface Interface types RJ 45 (Ethernet)	Yes; Via CM DP module Yes Yes Yes 1 1; Via CM DP module Yes; X1		
in AS, master in AS, device on Ethernet via NTP Interfaces Number of PROFINET interfaces Number of PROFIBUS interfaces 1. Interface Interface types RJ 45 (Ethernet) Number of ports	Yes; Via CM DP module Yes Yes Yes 1 1; Via CM DP module Yes; X1 3; 1. integr. + 2. via BusAdapter		
in AS, master in AS, device on Ethernet via NTP Interfaces Number of PROFINET interfaces Number of PROFIBUS interfaces 1. Interface Interface types RJ 45 (Ethernet) Number of ports integrated switch	Yes; Via CM DP module Yes Yes Yes 1 1; Via CM DP module Yes; X1 3; 1. integr. + 2. via BusAdapter Yes		
in AS, master in AS, device on Ethernet via NTP Interfaces Number of PROFINET interfaces Number of PROFIBUS interfaces 1. Interface Interface types RJ 45 (Ethernet) Number of ports integrated switch BusAdapter (PROFINET)	Yes; Via CM DP module Yes Yes Yes 1 1; Via CM DP module Yes; X1 3; 1. integr. + 2. via BusAdapter		
in AS, master in AS, device on Ethernet via NTP Interfaces Number of PROFINET interfaces Number of PROFIBUS interfaces 1. Interface Interface types RJ 45 (Ethernet) Number of ports integrated switch BusAdapter (PROFINET) Protocols	Yes; Via CM DP module Yes Yes Yes 1 1; Via CM DP module Yes; X1 3; 1. integr. + 2. via BusAdapter Yes Yes; Applicable BusAdapter: BA 2x RJ45, BA 2x FC		
in AS, master in AS, device on Ethernet via NTP Interfaces Number of PROFINET interfaces Number of PROFIBUS interfaces 1. Interface Interface Interface types RJ 45 (Ethernet) Number of ports integrated switch BusAdapter (PROFINET) Protocols PROFINET IO Controller	Yes; Via CM DP module Yes Yes Yes 1 1; Via CM DP module Yes; X1 3; 1. integr. + 2. via BusAdapter Yes Yes; Applicable BusAdapter: BA 2x RJ45, BA 2x FC Yes		
in AS, master in AS, device on Ethernet via NTP Interfaces Number of PROFINET interfaces Number of PROFIBUS interfaces 1. Interface Interface Interface types RJ 45 (Ethernet) Number of ports integrated switch BusAdapter (PROFINET) Protocols PROFINET IO Controller PROFINET IO Device	Yes; Via CM DP module Yes Yes Yes 1 1; Via CM DP module Yes; X1 3; 1. integr. + 2. via BusAdapter Yes Yes; Applicable BusAdapter: BA 2x RJ45, BA 2x FC Yes Yes		
in AS, master in AS, device on Ethernet via NTP Interfaces Number of PROFINET interfaces Number of PROFIBUS interfaces 1. Interface Interface types RJ 45 (Ethernet) Number of ports integrated switch BusAdapter (PROFINET) Protocols PROFINET IO Controller PROFINET IO Device SIMATIC communication	Yes; Via CM DP module Yes Yes Yes 1 1; Via CM DP module Yes; X1 3; 1. integr. + 2. via BusAdapter Yes Yes; Applicable BusAdapter: BA 2x RJ45, BA 2x FC Yes Yes Yes		
in AS, master in AS, device on Ethernet via NTP Interfaces Number of PROFINET interfaces Number of PROFIBUS interfaces 1. Interface Interface types RJ 45 (Ethernet) Number of ports integrated switch BusAdapter (PROFINET) Protocols PROFINET IO Controller PROFINET IO Device SIMATIC communication Open IE communication	Yes; Via CM DP module Yes Yes Yes Yes 1 1; Via CM DP module Yes; X1 3; 1. integr. + 2. via BusAdapter Yes Yes; Applicable BusAdapter: BA 2x RJ45, BA 2x FC Yes Yes Yes Yes Yes		
in AS, master in AS, device on Ethernet via NTP Interfaces Number of PROFINET interfaces Number of PROFIBUS interfaces 1. Interface Interface types RJ 45 (Ethernet) Number of ports integrated switch BusAdapter (PROFINET) Protocols PROFINET IO Controller PROFINET IO Device SIMATIC communication Open IE communication Web server	Yes; Via CM DP module Yes Yes Yes 1 1; Via CM DP module Yes; X1 3; 1. integr. + 2. via BusAdapter Yes Yes; Applicable BusAdapter: BA 2x RJ45, BA 2x FC Yes Yes Yes Yes Yes Yes Yes		
in AS, master in AS, device on Ethernet via NTP Interfaces Number of PROFINET interfaces Number of PROFIBUS interfaces 1. Interface Interface types RJ 45 (Ethernet) Number of ports integrated switch BusAdapter (PROFINET) Protocols PROFINET IO Controller PROFINET IO Device SIMATIC communication Open IE communication Web server Media redundancy	Yes; Via CM DP module Yes Yes Yes Yes 1 1; Via CM DP module Yes; X1 3; 1. integr. + 2. via BusAdapter Yes Yes; Applicable BusAdapter: BA 2x RJ45, BA 2x FC Yes Yes Yes Yes Yes Yes		
in AS, master in AS, device on Ethernet via NTP Interfaces Number of PROFINET interfaces Number of PROFIBUS interfaces Number of PROFIBUS interfaces 1. Interface Interface types RJ 45 (Ethernet) Number of ports integrated switch BusAdapter (PROFINET) Protocols PROFINET IO Controller PROFINET IO Device SIMATIC communication Open IE communication Web server Media redundancy PROFINET IO Controller	Yes; Via CM DP module Yes Yes Yes 1 1; Via CM DP module Yes; X1 3; 1. integr. + 2. via BusAdapter Yes Yes; Applicable BusAdapter: BA 2x RJ45, BA 2x FC Yes Yes Yes Yes Yes Yes Yes		
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in AS, master in AS, device on Ethernet via NTP Interfaces Number of PROFINET interfaces Number of PROFIBUS interfaces 1. Interface Interface types RJ 45 (Ethernet) Number of ports integrated switch BusAdapter (PROFINET) Protocols PROFINET IO Controller PROFINET IO Device SIMATIC communication Open IE communication Web server Media redundancy PROFINET IO Controller	Yes; Via CM DP module Yes Yes Yes 1 1; Via CM DP module Yes; X1 3; 1. integr. + 2. via BusAdapter Yes Yes; Applicable BusAdapter: BA 2x RJ45, BA 2x FC Yes Yes Yes Yes Yes Yes Yes		

Direct data exchange	Yes; Requirement: IRT and isochronous mode (MRPD optional)	
— IRT	Yes	
— PROFlenergy	Yes	
 Prioritized startup 	Yes; Max. 32 PROFINET devices	
 Number of connectable IO Devices, max. 	64; In total, up to 189 distributed I/O devices can be connected via PROFIBUS or PROFINET	
 Of which IO devices with IRT, max. 	64	
 Number of connectable IO Devices for RT, max. 	64	
— of which in line, max.	64	
 Number of IO Devices that can be simultaneously activated/deactivated, max. 	8; in total across all interfaces	
 Number of IO Devices per tool, max. 	8	
— Updating times	The minimum value of the update time also depends on communication share set for PROFINET IO, on the number of IO devices, and on the quantity of configured user data	
Update time for IRT	J	
— for send cycle of 250 μs	250 µs to 4 ms; Note: In the case of IRT with isochronous mode, the minimum update time of 625 µs of the isochronous OB is decisive	
— for send cycle of 500 μs	500 µs to 8 ms; Note: In the case of IRT with isochronous mode, the minimum update time of 625 µs of the isochronous OB is decisive	
— for send cycle of 1 ms	1 ms to 16 ms	
— for send cycle of 2 ms	2 ms to 32 ms	
— for send cycle of 4 ms	4 ms to 64 ms	
With IRT and parameterization of "odd" send cycles	Update time = set "odd" send clock (any multiple of 125 μs: 375 μs, 625 μs 3	
with the and parameterization of our sent cycles	875 µs)	
Update time for RT		
— for send cycle of 250 μs	250 µs to 128 ms	
— for send cycle of 500 μs	500 μs to 256 ms	
— for send cycle of 1 ms	1 ms to 512 ms	
— for send cycle of 2 ms	2 ms to 512 ms	
— for send cycle of 4 ms	4 ms to 512 ms	
PROFINET IO Device		
Services		
— PG/OP communication	Yes	
— Isochronous mode	No	
— IRT	Yes	
— PROFlenergy	Yes	
— Shared device	Yes	
Number of IO Controllers with shared device, max.	4	
2. Interface	•	
Interface types	Vac Via OM DD madula	
• RS 485	Yes; Via CM DP module	
Number of ports	1	
Protocols	V	
PROFIBUS DP master	Yes	
PROFIBUS DP device	Yes	
SIMATIC communication	Yes	
PROFIBUS DP master		
 Number of connections, max. 	48	
max. number of DP devices	125	
Services		
— PG/OP communication	Yes	
— Equidistance	No	
 Isochronous mode 	No	
— activation/deactivation of DP devices	Yes	
Interface types		
RJ 45 (Ethernet)		
• 100 Mbps	Yes	
Autonegotiation	Yes	
Autocrossing	Yes	
Industrial Ethernet status LED	Yes	
RS 485		
Transmission rate, max.	12 Mbit/s	
- Transmission rate, man		

Protocols			
PROFIsafe	No		
Number of connections			
Number of connections, max.	64		
Number of connections reserved for ES/HMI/web	10		
Number of connections via integrated interfaces	64		
Number of S7 routing paths	16		
Redundancy mode			
Media redundancy			
— Media redundancy	only via 1st interface (X1)		
— MRP	Yes; as MRP redundancy manager and/or MRP client; max. number of devices		
	in the ring: 50		
— MRPD	Yes; Requirement: IRT		
 Switchover time on line break, typ. 	200 ms		
 Number of stations in the ring, max. 	50		
SIMATIC communication			
S7 routing	Yes		
 Data record routing 	Yes		
 S7 communication, as server 	Yes		
 S7 communication, as client 	Yes		
User data per job, max.	See online help (S7 communication, user data size)		
Open IE communication			
• TCP/IP	Yes		
— Data length, max.	64 kbyte		
 several passive connections per port, supported 	Yes		
• ISO-on-TCP (RFC1006)	Yes		
— Data length, max.	64 kbyte		
• UDP	Yes		
— Data length, max.	1 472 byte		
• DHCP	No		
• SNMP	Yes		
• DCP	Yes		
• LLDP	Yes		
Web server			
• HTTP	Yes; Standard and user-defined pages		
• HTTPS	Yes; Standard and user-defined pages		
Further protocols			
• MODBUS	Yes; MODBUS TCP		
S7 message functions			
Number of login stations for message functions, max.	32		
Program alarms	Yes		
Number of configurable program messages, max.	5 000		
Number of simultaneously active program alarms			
 Number of program alarms 	300		
 Number of alarms for system diagnostics 	100		
 Number of alarms for motion technology objects 	80		
Test commissioning functions			
Joint commission (Team Engineering)	Yes; Parallel online access possible for up to 3 engineering systems		
Status block	Yes; Up to 8 simultaneously (in total across all ES clients)		
Single step	No		
Status/control			
Status/control variable	Yes		
Variables	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters		
Number of variables, max.			
— of which status variables, max.	200; per job		
— of which control variables, max.	200; per job		
Forcing			
• Forcing	Yes		
• Forcing, variables	Peripheral inputs/outputs		
Number of variables, max.	200		
Diagnostic buffer			
_ i.i.g. /0000 vanor			

• present	Yes	
Number of entries, max.	1 000	
— of which powerfail-proof	500	
Traces		
Number of configurable Traces	4; Up to 512 KB of data per trace are possible	
Interrupts/diagnostics/status information		
Diagnostics indication LED	V	
RUN/STOP LED	Yes	
• ERROR LED	Yes	
MAINT LED Maritaria and the appropriate of (DM/D LED)	Yes	
Monitoring of the supply voltage (PWR-LED)	Yes	
Connection display LINK TX/RX	Yes	
Supported technology objects	V	
Motion Control	Yes	
 Speed-controlled axis — Number of speed-controlled axes, max. 	6; Requirement: There must be no other motion technology objects created; note: The number of axes affects the cycle time of the PLC program; selection guide via the TIA Selection Tool	
 Positioning axis 		
— Number of positioning axes, max.	6; Requirement: There must be no other motion technology objects created; note: The number of axes affects the cycle time of the PLC program; selection guide via the TIA Selection Tool	
 Synchronized axes (relative gear synchronization) 		
— Number of axes, max.	3; Requirement: There must be no other motion technology objects created; note: The number of axes affects the cycle time of the PLC program; selection guide via the TIA Selection Tool	
External encoders		
Number of external encoders, max.	6; Requirement: There must be no other motion technology objects created; note: The number of axes affects the cycle time of the PLC program; selection guide via the TIA Selection Tool	
Controller		
PID_Compact	Yes; Universal PID controller with integrated optimization	
PID_3Step	Yes; PID controller with integrated optimization for valves	
PID-Temp	Yes; PID controller with integrated optimization for temperature	
Counting and measuring		
High-speed counter	Yes	
Standards, approvals, certificates		
Highest safety class achievable in safety mode		
 Performance level according to ISO 13849-1 	none	
SIL acc. to IEC 61508	No	
Ambient conditions		
Ambient temperature during operation		
horizontal installation, min.	0 °C	
horizontal installation, max.	60 °C	
vertical installation, min.	0 °C	
vertical installation, max.	50 °C	
configuration / header		
configuration / programming / header		
Programming language	V	
— LAD	Yes	
— FBD	Yes	
— STL	Yes	
— SCL	Yes	
— GRAPH	Yes	
Know-how protection	Von	
User program protection/password protection Copy protection	Yes	
Copy protection Plack protection	Yes	
Block protection Access protection	Yes	
Access protection	Vac	
Protection level: Write protection Protection level: Pead/write protection	Yes	
Protection level: Read/write protection Protection level: Complete protection	Yes	
Protection level: Complete protection programming / cycle time monitoring / header.	Yes	
programming / cycle time monitoring / header		

• lower limit adjustable minimum cycle time • upper limit adjustable maximum cycle time Width 100 mm Height 117 mm Depth 75 mm Weights Weight, approx. 310 g Classifications

	Version	Classification
eClass	14	27-24-26-07
eClass	12	27-24-26-07
eClass	9.1	27-24-26-07
eClass	9	27-24-26-07
eClass	8	27-24-26-07
eClass	7.1	27-24-26-07
eClass	6	27-24-26-07
ETIM	9	EC001603
ETIM	8	EC001603
ETIM	7	EC001603
IDEA	4	3565
UNSPSC	15	32-15-17-05

Approvals / Certificates

For use in hazardous locations **General Product Approval**

Manufacturer Declaration

Miscellaneous



Miscellaneous



<u>FM</u>

Marine / Shipping

Industrial Communication





Profibus

PROFINET

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12/8/2024

