

SIMATIC ET 200SP OPEN CONTROLLER, CPU 1515SP PC, 4 GB RAM, 16 GB CFAST WITH WINDOWS EMBEDDED STANDARD 7 P 64BIT PREINSTALLED, W. S7-1500 SOFTWARE CONTROLLER CPU 1505S V1.8 PREINSTALLED, INTERFACES: 1X SLOT CFAST, 1X SLOT SD/MMC, 1X PLUG F. ET 200SP BUS-ADAPTOR PROFINET, 1X 10/100/1000 MBIT/S ETHERNET, 3 X USB, 1 X DVI-I GRAPHIC INTERFACE, DOCUMENTATION ON DVD, RESTORE DVD



Figure similar

General information	
Product type designation	CPU 1515SP PC
HW functional status	01
Firmware version	V1.8
Engineering with	
• STEP 7 TIA Portal configurable/integrated as of version	V13 SP1 Update 4
PC configuration	
Processor	Dual-Core 1 GHz, AMD G Series APU T40E
Main memory	4 GB RAM
Flash Disk	16 GB
Operating systems	Windows Embedded Standard 7 P 64-bit
Installed software	
• Visualization	No
• Control	S7-1500 Software Controller CPU 1505S V1.8
Control elements	
Mode selector switch	1

Supply voltage	
Type of supply voltage	24 V DC
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)	1.5 A; Full processor load, incl. ET 200SP modules and using USB
Current consumption (in no-load operation), typ.	0.6 A
Inrush current, max.	4.7 A; Rated value
Power	
Power consumption, max.	36 W; incl. ET 200SP modules and using USB
Infeed power to the backplane bus	8.75 W
Power loss	
Power loss, typ.	15 W; without ET 200SP modules and without using USB
Memory	
Type of memory	DDR3-SDRAM
CFast memory card	Yes; 16 GB flash memory
Work memory	
• integrated	4 Gbyte
Hardware configuration	
Integrated power supply	Yes
Number of DP masters	
• Via CM	1
Rack	
• Modules per rack, max.	64
• Number of lines, max.	1
Time of day	
Clock	
• Type	Hardware clock
• Hardware clock (real-time)	Yes; Resolution: 1 s
• Backup time	6 wk; At 40 °C ambient temperature, typically
• Deviation per day, max.	10 s; Typ.: 2 s
Interfaces	
Number of industrial Ethernet interfaces	2
Number of PROFINET interfaces	1
Number of PROFIBUS interfaces	1; Via CM DP module
Number of RS 485 interfaces	1; Via CM DP module

Number of USB interfaces	3; 3x USB 2.0 on the front, 500 mA each – of which 2x 500 mA and 1x 100 mA simultaneously
Number of SD card slots	1
Video interfaces	
• Graphics interface	1x DVI-I

1. Interface

Interface type	PROFINET
Physics	BusAdapter BA for ET 200SP
automatic detection of transmission rate	Yes
Autonegotiation	Yes
Autocrossing	Yes
Interface types	
• Number of ports	2
• integrated switch	Yes
• RJ 45 (Ethernet)	Yes; Via BusAdapter BA 2x RJ45
— Transmission rate, max.	100 Mbit/s
— Industrial Ethernet status LED	Yes

2. Interface

Interface type	Integrated Ethernet interface
Physics	RJ45
automatic detection of transmission rate	Yes
Autonegotiation	Yes
Autocrossing	Yes
Interface types	
• Number of ports	1
• RJ 45 (Ethernet)	Yes; Integrated
— Transmission rate, max.	1 000 Mbit/s
— Industrial Ethernet status LED	No

3. Interface

Interface types	
• RS 485	Yes; Via CM DP module

Interface types

RJ 45 (Ethernet)	
• 100 Mbps	Yes; For 1st interface X1
• 1000 Mbps	Yes; For 2nd interface X2
• Autonegotiation	Yes
• Autocrossing	Yes
RS 485	
• Transmission rate, max.	12 Mbit/s

Interrupts/diagnostics/status information

Diagnostics indication LED	
• RUN/STOP LED	Yes
• ERROR LED	Yes
• MAINT LED	Yes
EMC	
Emission of radio interference acc. to EN 55 011	
• Limit class A, for use in industrial areas	Yes
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	Up to 60 °C with max. 32 ET 200SP modules and 3x 100 mA USB load; up to 55 °C with max. 64 ET 200SP modules and 2x max. 500 mA and 1x max. 100 mA USB load
• horizontal installation, min.	0 °C
• horizontal installation, max.	60 °C
• vertical installation, min.	0 °C
• vertical installation, max.	50 °C; With max. 32 ET 200SP modules and 3x 100 mA USB load
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °C
Vibrations	
• Operation, tested according to IEC 60068-2-6	Yes
• Transport, tested acc. to IEC 60068-2-6	Yes
Shock test	
• tested according to IEC 60068-2-27	Yes
• tested according to IEC 60068-2-6	Yes
Shock testing	
• tested according to IEC 60068-2-29	Yes
• Storage/transport, tested acc. to IEC 60068-2-27	Yes
• Storage/transport, tested acc. to IEC 60068-2-29	Yes
Peripherals/Options	
Peripherals	
• SD card	Optionally for additional mass storage

Dimensions	
Width	160 mm
Height	117 mm
Depth	75 mm

Weights	
Weight, approx.	0.83 kg

last modified: 10/28/2016