	6ES7677-2FA31-0EB0
Ambient temperature during storage / transport	
Min.	-40 °C
Max.	70 °C
I/O / Options	
I/O	
• SD card	optional for additional mass storage
Dimensions	
Width	160 mm
Height	117 mm
Depth	75 mm
Weights	
Weight, approx.	0.83 kg

10.7.3 CPU 1515SP PC, system version WES7 E 32Bit 4GB RAM - spare part

CPU 1515SP PC, system version WES7 E 32Bit 4GB RAM - spare part

	6ES7677-2AA40-0AA0
General information	
Product type designation	CPU 1515SP PC
Engineering with	
STEP 7 TIA Portal can be configured/integrated as of version	as of STEP 7 V14
PC configuration	
Processor	Dual-Core 1 GHz, AMD G Series APU T40E
Main memory	4 GB RAM
Installed SW	
Visualization	No
Controller	No
Operator controls	
Mode selector	1
Supply voltage	
Type of supply voltage	24 V DC
Low limit of permitted range (DC)	19.2 V
High limit of permitted range (DC)	28.8 V
Reverse polarity protection	Yes
Power and voltage failure backup	
Power/voltage failure backup time	5 ms

	6ES7677-2AA40-0AA0
Input current	
Current consumption (rated value)	1.5 A; full processor load, incl. ET 200SP modules and USB use
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 USB use
Incoming power to the backplane bus	8.75 W
Power loss	
Power loss, typ.	15 W; without ET 200SP modules and without USB use
Memory	
Type of memory	DDR3-SDRAM
CFast memory card	No
Work memory	
Integrated	4 GB
Hardware configuration	
integrated power supply	Yes
Number of DP masters	
Via CM	1
Racks	
Modules per rack, max.	64; CPU + 64 Module + server module (mounting width max. 1 m)
Number of rows, max.	1
Time-of-day	
Clock	
Type	Hardware clock
Buffering time	6 wk; at 40 °C ambient temperature, typ.
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 interfaces RS 485	1; via CM DP module
Number of USB interfaces	3; 3x USB 2.0 front, 500 mA each – of which 2 x 500 mA and 1 x 100 mA simultaneously
Number of SD card slots	1
Video interfaces	
Graphics interface	1x DVI-I

	6ES7677-2AA40-0AA0
1st interface	
Interface hardware	
Number of ports	2
integrated switch	Yes
RJ 45 (Ethernet)	Yes; via BusAdapter BA 2x RJ45
• Transmission rate, max.	100 Mbps
• Industrial Ethernet status LED	Yes
2nd interface	
Interface hardware	
Number of ports	1
RJ 45 (Ethernet)	Yes; integrated
• Transmission rate, max.	1000 Mbps
• Industrial Ethernet status LED	No
3rd interface	
Interface hardware	
RS 485	Yes; via CM DP module
Interface hardware	
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 Mbps
Ambient conditions	
Ambient temperature in 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 / transport	
Min.	-40 °C
Max.	70 °C

	6ES7677-2AA40-0AA0
I/O / Options	
I/O	
• SD card	optional for additional mass storage
Dimensions	
Width	160 mm
Height	117 mm
Depth	75 mm
Weights	
Weight, approx.	0.83 kg

10.7.4 CPU 1515SP PC, system version WES7 P 64Bit 4GB RAM

CPU 1515SP PC, system version WES7 P 64Bit 4GB RAM

	6ES7677-2AA41-0FB0
General information	
Product type designation	CPU 1515SP PC
HW release number	FS03
Firmware version	V2.0
Engineering with	
STEP 7 TIA Portal can be configured/integrated as of version	V14
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 SW	
Visualization	No
Controller	S7-1500 Software Controller CPU 1505SP V2.0
Operator controls	
Mode selector	1
Supply voltage	
Type of supply voltage	24 V DC
Low limit of permitted range (DC)	19.2 V
High limit of permitted range (DC)	28.8 V
Reverse polarity protection	Yes
Power and voltage failure backup	
Power/voltage failure backup time	5 ms