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Data sheet 6ES7677-2AA40-0AA0



Figure similar

SIMATIC ET 200SP Open Controllers, CPU 1515SP PC. spare part, 4 GB RAM, without CFast, Interfaces: 1x slot CFAST, 1x slot SD/MMC, 1x connection for ET 200SP bus adapter PROFINET 1x 10/100/1000 Mbit/s Ethernet 3x USB, 1x DVI-I graphics card connection

General information	
Product type designation	CPU 1515SP PC
HW functional status	FS03
Installed software	
● Visualization	No
● Control	No
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)	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	
Active power input, 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
Processor	
Processor type	Dual-Core 1 GHz, AMD G Series APU T40E
Storage	
Type of memory	DDR3-SDRAM
Main memory	4 GB RAM
CFast memory card	No
Hardware configuration	
Integrated power supply	Yes
Rack	
● Modules per rack, max.	64; CPU + 64 modules + server module (mounting width max. 1 m)
● Number of lines, max.	1
Time of day	
Clock	
● Type	Hardware clock

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● 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	1
Number of PROFINET interfaces	1
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
automatic detection of transmission rate	Yes
Autonegotiation	Yes
Autocrossing	Yes
Interface types	
● RJ 45 (Ethernet)	Yes; Via BusAdapter BA 2x RJ45
— Transmission rate, max.	100 Mbit/s
— Industrial Ethernet status LED	Yes
● Number of ports	2
● integrated switch	Yes
2. Interface	
Interface type	Integrated Ethernet interface
automatic detection of transmission rate	Yes
Autonegotiation	Yes
Autocrossing	Yes
Interface types	
● RJ 45 (Ethernet)	Yes; Integrated
— Transmission rate, max.	1 000 Mbit/s
— Industrial Ethernet status LED	No
● Number of ports	1
Interface types	
RS 485	
● Transmission rate, max.	12 Mbit/s
Protocols	
Open IE communication	
● TCP/IP	
— Data length, max.	64 kbyte
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

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Vibrations	
● Operation, tested according to IEC 60068-2-6	Yes
● Transport, tested acc. to IEC 60068-2-6	Yes
Shock testing	
● tested according to IEC 60068-2-6	Yes
● tested according to IEC 60068-2-27	Yes
● tested according to IEC 60068-2-29	Yes
● Storage/transport, tested acc. to IEC 60068-2-27	Yes
Peripherals/Options	
SD card	Optionally for additional mass storage
Dimensions	
Width	160 mm
Height	117 mm
Depth	75 mm
Weights	
Weight, approx.	0.83 kg

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	10	EC001603
ETIM	9	EC001603
ETIM	8	EC001603
ETIM	7	EC001603
IDEA	4	3565
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

Miscellaneous | Manufacturer Declaration | CE EG-Konf. | UKCA | UL | Miscellaneous

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

China RoHS | UL | CCC-Ex | FM | ATEX | Type Examination Certificate

For use in hazardous locations | **Maritime application**

IECEx | Miscellaneous | CCC-Ex | RMRS

last modified: 7/13/2024

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