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Data sheet 6AV7885-5AA20-7GA8

no longer available SIMATIC HMI IPC 577C PCI slot, 4 USB (back)+1 USB (front), Ethernet (10/100/1000), 19" touch display ; Celeron M 1.2 GHz, PROFINET (IE); 2x 1 Gbit 2 GB -RAM, DDR3; 2nd mass storage: Not equipped 1st mass storage (Operating system optional): 80 GB Solid-State Drive SATA (standard) Windows 7 Ultimate MUI pre-installed; (only possible with HD or SSD) without expansion (software) 24 V DC power supply

Display	
Design of display	19" TFT touch
Screen diagonal	19 in
Resolution (pixels)	
● Horizontal image resolution	1 280 pixel
● Vertical image resolution	1 024 pixel
Backlighting	
● MTBF backlighting (at 25 °C)	50 000 h
Control elements	
Input device	
● Integrated mouse cursor control	No
● Mouse, at front	No
Keyboard fonts	
● Function keys	No
— Number of function keys	0
● alphanumeric keyboard	No
Touch operation	
● Design as touch screen	Yes
Installation type/mounting	
central design	Yes
distributed design	No
maximum permissible installation angle +/-	45°
Supply voltage	
Type of supply voltage	110/230 V AC or 24 V DC
Power loss	
In full configuration	24 V DC: max. 80 W (incl. USB interfaces)
Processor	
Processor type	Intel Celeron M 1.2 GHz, Intel Core2Solo 1.2 GHz, Intel Core2Duo 1.86 GHz
Drives	
Optical drives	Optional: DVD±R±RW combi drive; on rear, can be operated from side
Hard disk	3.5" SATA hard disk ≥ 80 GB, vibration-resistant mounting
Memory	
Type of memory	DDR3-SDRAM
Main memory	512 MB
Capacity of main memory, max.	4 096 Mbyte; At least 3.2 GB can be used
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	2 048 kbyte; 128 KB can be stored in the buffer time
Hardware configuration	
Slots	
● free slots	1x CF card slot, externally accessible, 1x PCI slot in device interior, 1x SSD slot
● Number of PCI slots	1
● Number of compact flash slots	1
Interfaces	
PROFIBUS/MPI	1x CP 5611 comptable
USB port	1x on front, 4x on reverse, USB 2.0 (3x 500 mA)
Connection for keyboard/mouse	USB / USB
parallel interface	0
Multimedia	

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● Audio In/Out	No
● Microphone In	No
Video interfaces	
● Graphics interface	DVI-I: VGA / DVI combined
Industrial Ethernet	
● Industrial Ethernet interface	PROFIBUS version, onboard 2 x: PROFINET version, onboard 1 x: 10/100/1000 Mbit/s, RJ45, no plug-in card necessary.
— 100 Mbps	Yes
— 1000 Mbps	Yes
Protocols	
Protocols (Ethernet)	
● TCP/IP	Yes
Integrated Functions	
Monitoring functions	
● Temperature monitoring	Yes
● Watchdog	Yes
Degree and class of protection	
IP (at the front)	IP65
Standards, approvals, certificates	
CE mark	Yes
EMC	CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A
Use in hazardous areas	
● FM Class I Division 2	No
Marine approval	
● Germanischer Lloyd (GL)	No
● American Bureau of Shipping (ABS)	No
● Bureau Veritas (BV)	No
● Det Norske Veritas (DNV)	No
● Lloyds Register of Shipping (LRS)	No
● Polski Rejestr Statkow (PRS)	No
Ambient conditions	
Ambient temperature during operation	
● min.	0 °C
● max.	50 °C
Relative humidity	
● Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5% to 85% at 30 °C (no condensation) Storage: 5% to 95% at 25 °C (no condensation)
Vibrations	
● Vibration resistance during operation acc. to IEC 60068-2-6	Mech. environmental conditions tested in acc. with IEC 60068-2-6 Vibration: in operation with CompactFlash Card and SSD: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 500 Hz: 9.8 m/s²; in operation with HDD: 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s²
Shock testing	
● Shock load during operation	Tested according to DIN IEC 60068-2-7: 50 m/s² (5 g), 30 ms
Operating systems	
pre-installed operating system	Windows XP Embedded and Win XP Prof.
Additional info on operating system	WIN XPe: GER/ENG WIN XP Prof: MUI Language: GER, ENG, IT, FR, SP, KOR, CHN (traditional), CHN (simplified), JPN
without operating system	Yes
pre-installed operating system	
● Windows XP Professional	Yes; Only with SSD or HDD
Accessories	
Accessory components	Touch protective foil
Dimensions	
Width of the housing front	483 mm
Height of housing front	400 mm
Mounting cutout, width	450 mm
Mounting cutout, height	380 mm
Overall depth	125 mm
● additional mounting depth (optical drive)	23 mm
Weights	
Weight, approx.	11.6 kg

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Approvals / Certificates

General Product Approval				EMV	Dangerous goods
CE EG-Konf.	UKCA	UL	KC	RCM	Dangerous goods information

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