## **SIEMENS**

## Data sheet

6AV7820-0AA00-1AC0

SIMATIC PANEL PC 577 12" TOUCH; 800X600; STANDARD AC110-230V, POWER CABLE EUROPE CELERON P4 2,0 GHZ; 256MB DDR400 SDRAM (2X128MB); 40 GBYTE HARDDISK 2,5"; DVD-ROM; WINDOWS XP PROF. SP2 MUI

Display	
Design of display	12" TFT touch
Screen diagonal	12 in
Resolution (pixels)	
Horizontal image resolution	800 Pixel
<ul> <li>Vertical image resolution</li> </ul>	600 Pixel
General features	
Expansion components	SIMATIC NET communications modules
Backlighting	
MTBF backlighting (at 25 °C)	50 000 h
Control elements	
Input device	
Mouse, at front	No
Keyboard fonts	
<ul><li>Function keys</li></ul>	No
<ul> <li>alphanumeric keyboard</li> </ul>	No
Touch operation	
Design as touch screen	Yes
Installation type/mounting	
central design	Yes
distributed design	No
maximum permissible installation angle +/-	5° opposed to vertical
Supply voltage	
Type of supply voltage	110/230V AC (autorange) 50/60 Hz
Line frequency	
Rated value 50 Hz	Yes
● Rated value 60 Hz	Yes
Power loss	
In full configuration	Max. 190W (15W included per slot)
Processor	
Processor type	Intel Pentium 4 Technology; Intel Celeron 2.0 GHz, Intel Pentium 4 2.4 GHz

Drives	
Optical drives	Optional: DVD±R±RW combi drive; on rear, can be operated from side
Diskette drive	optional via external USB drive
Hard disk	2.5" EIDE hard disk ≥ 40 GB, vibration and oscillation-resistant mounting
Memory	
Type of memory	DDR-400
Main memory	256 MB, 512 MB or 1 GB, max. 3 GB
Capacity of main memory, max.	3 072 Mbyte
Hardware configuration Slots	
• free slots	3x PCI (slot with board retainer)
Number of PCI slots	3
Number of compact flash slots	0
nterfaces	
PROFIBUS/MPI	can be implemented with plug-in card
USB port	1x at front, 4x at rear, USB 2.0 (500 mA)
Connection for keyboard/mouse	PS/2 or USB; PS/2 or USB
serial interface	COM1: 1 x V.24 (RS232)
parallel interface	LPT1 (EPP/ECP)
Video interfaces	
Graphics interface	VGA interface can be used for additional display unit; color depth 32 bit, 8-128 MB shared memory
Industrial Ethernet	
Industrial Ethernet interface	Onboard, 10/100/1000 Mbit/s, RJ45, no plug-in card necessary
— 100 Mbps	Yes
— 1000 Mbps	Yes
ntegrated Functions	
Monitoring functions	
Temperature monitoring	Yes
<ul><li>Watchdog</li></ul>	Yes
Status LEDs	No
Degree and class of protection	
IP (at the front)	IP65 (on front) to EN60529 and NEMA4
Standards, approvals, certificates	
Approval	CE, cULus (508), C-TICK
CE mark	Yes
EMC	CE, EN 55011, EN 61000-6-4, EN 61000-6-2
• EN 61000-6-2	Yes
Marine approval	

<ul> <li>Germanischer Lloyd (GL)</li> </ul>	No
<ul> <li>American Bureau of Shipping (ABS)</li> </ul>	No
Bureau Veritas (BV)	No
<ul><li>Det Norske Veritas (DNV)</li></ul>	No
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
<ul> <li>Polski Rejestr Statkow (PRS)</li> </ul>	No

Polski Rejestr Statkow (PRS)  Ambient conditions  Ambient temperature during operation  Associated to DIN IEC 60068-2-30, DIN IEC 60068-2-30, DIN IEC 60068-2-30, DIN IEC 60068-2-30; BW at 25 °C (no condensation)  Vibrations  Avitable to DIN IEC 60068-2-6: 20 Hz to 58 Hz: 0.0185 mm, 58 Hz to 200 Hz: 2.5 m/s² (0.25g)  Shock testing  Shock testing  Associated to DIN IEC 60068-2-29: 10 m/s² (1g), 30 ms, 100 shocks  Operating systems  Operating system  Windows 2000 Prof. (Multi-Language), Windows XP Prof. (Multi-Language), opt. without operating system  Pre-installed operating system  Yes  Additional info on operating system  Windows XP Professional  Yes  Software  SIMATIC Software  Optionally in package with SIMATIC WinCC or WinCC flexible  Accessories  Accessory components  Touch protective foil  Dimensions  Overall depth  Operator panel width  Operator panel height  Operator panel height  Install dimensions, centralized design (W x H x D without optical drive) in mm  Width  Width  Width  Width  Width  Width	<ul><li>Lloyds Register of Shipping (LRS)</li></ul>	No
Ambient temperature during operation  • Ambient temperature during operation • min. • min. • max.  • max.  Relative humidity • Relative humidity  • Relative humidity  • Relative humidity  • Relative humidity  • Tested to DIN IEC 60068-2-3, DIN IEC 60068-2-30, DIN IEC 60068-2-30, DIN IEC 60068-2-56: 5% to 80% at 25 °C (no condensation)  Vibrations  • Vibration load in operation  • Vibration load in operation  • Shock testing • Shock load during operation  Tested to DIN IEC 60068-2-6: 20 Hz to 58 Hz: 0.0185 mm, 58 Hz to 200 Hz: 2.5 m/s² (0.25g)  Shock testing  • Shock load during operation  Tested to DIN IEC 60068-2-29: 10 m/s² (1g), 30 ms, 100 shocks  Operating systems  Operating system  Vindows 2000 Prof. (Multi-Language), Windows XP Prof. (Multi-Language), opt. without operating system  Pre-installed operating system  Yes  Additional info on operating system  • Windows XP Professional  Yes  Software  • Windows XP Professional  Yes  Software  SIMATIC Software  Optionally in package with SIMATIC WinCC or WinCC flexible  Accessories  Accessories  Accessory components  Touch protective foil  Dimensions  Operator panel width  • additional mounting depth (optical drive)  Operator panel width  • Operator panel width  • Operator panel elight  Install, dimensions, centralized design (W x H x D without optical drive) in mm  Install, dimensions, centralized design (W x H x D without optical drive) in mm	<ul> <li>Polski Rejestr Statkow (PRS)</li> </ul>	No
Ambient temperature during operation min. min. max.  45 °C  Relative humidity  Relative humidity  Relative humidity  Relative humidity  Tested to DIN IEC 60068-2-3, DIN IEC 60068-2-30, DIN IEC 60068-2-56: 5% to 80% at 25 °C (no condensation)  Vibrations  Vibration load in operation  Tested to DIN IEC 60068-2-6: 20 Hz to 58 Hz: 0.0185 mm, 58 Hz to 200 Hz: 2.5 m/s² (0.25g)  Shock testing  Shock load during operation  Tested to DIN IEC 60068-2-29: 10 m/s² (1g), 30 ms, 100 shocks  Operating system  Windows 2000 Prof. (Multi-Language), Windows XP Prof. (Multi-Language), opt. without operating system  Yes  Additional info on operating system  Windows 2000 Prof. (Multi-Language), Def. En, IT, FR, SP, KOR, CHN (Traditional), CHN (Simplified), JPN  Without operating system  Windows XP Professional  Yes  Software  Optionally in package with SIMATIC WinCC or WinCC flexible  Accessory components  Touch protective foil  Dimensions  Overall depth  additional mounting depth (optical drive)  Operator control unit (W x H) in mm  Operator control unit (W x H) in mm  Operator panel width  Operator panel width  Operator panel width  Operator panel height  Install. dimensions, centralized design (W x H x D without optical drive) in mm   **Software**  **Software**  **Touch protective foil**  **Touch protective foil**	Ambient conditions	
• min. • max. 45 °C Relative humidity • Tested to DIN IEC 60068-2-3, DIN IEC 60068-2-30, DIN IEC 60068-2-6: 20 Hz to 58 Hz: 0.0185 mm, 58 Hz to 200 Hz: 2.5 m/s² (0.25g)  Shock testing • Shock load during operation • Shock load during operation • Tested to DIN IEC 60068-2-6: 20 Hz to 58 Hz: 0.0185 mm, 58 Hz to 200 Hz: 2.5 m/s² (0.25g)  Shock load during operation • Tested to DIN IEC 60068-2-29: 10 m/s² (1g), 30 ms, 100 shocks  Operating systems  Operating system • Windows 2000 Prof. (Multi-Language), Windows XP Prof. (Multi-Language), opt. without operating system  Pre-installed operating system • Wilt-Language: DE, EN, IT, FR, SP, KOR, CHN (Traditional), CHN (Simplified), JPN  without operating system • Windows XP Professional  Yes  Software  SIMATIC Software  Optionally in package with SIMATIC WinCC or WinCC flexible  Accessories  Accessory components  Touch protective foil  Dimensions  Overall depth • additional mounting depth (optical drive) • Operator control unit (W x H) in mm • Operator control unit (W x H) in mm • Operator panel height  Install. dimensions, centralized design (W x H x D without optical drive) in mm  S68 mm x 290 mm x 152 mm	Ambient temperature during operation	
Relative humidity     Relative humidity humidite	Ambient temperature during operation	+5 °C to +45 °C with full configuration
Relative humidity  Tested to DIN IEC 60068-2-3, DIN IEC 60068-2-30, DIN IEC 60068-2-50: 5% to 80% at 25 °C (no condensation)  Tested to DIN IEC 60068-2-6: 20 Hz to 58 Hz: 0.0185 mm, 58 Hz to 200 Hz: 2.5 m/s² (0.25g)  Shock testing  Shock load during operation  Tested to DIN IEC 60068-2-9: 10 m/s² (1g), 30 ms, 100 shocks  Operating systems  Operating system  Windows 2000 Prof. (Multi-Language), Windows XP Prof. (Multi-Language), opt. without operating system  Yes  Additional info on operating system  Windows 2000 Prof. (Multi-Language), Windows XP Prof. (Multi-Language), opt. without operating system  Yes  Additional info on operating system  Yes  Yes  Software  SiMATIC Software  Optionally in package with SIMATIC WinCC or WinCC flexible  Accessories  Accessory components  Touch protective foil  Dimensions  Overall depth  Additional mounting depth (optical drive)  Operator panel height  400 mm  Operator panel height  310 mm  Install. dimensions, centralized design (Wx H x D without optical drive) in mm	• min.	5 °C
Relative humidity  Tested to DIN IEC 60068-2-30, DIN IEC 60068-2-30, DIN IEC 60068-2-30, DIN IEC 60068-2-30, DIN IEC 60068-2-50: 5% to 80% at 25 °C (no condensation)  Vibrations  Vibration load in operation  Tested to DIN IEC 60068-2-6: 20 Hz to 58 Hz: 0.0185 mm, 58 Hz to 200 Hz: 2.5 m/s² (0.25g)  Shock testing  Shock load during operation  Tested to DIN IEC 60068-2-9: 10 m/s² (1g), 30 ms, 100 shocks  Operating systems  Operating system  Windows 2000 Prof. (Multi-Language), Windows XP Prof. (Multi-Language), opt. without operating system  Yes  Additional info on operating system  Windows 2000 Prof. (Multi-Language), Windows XP Prof. (Multi-Language), opt. without operating system  Yes  Additional info on operating system  Yes  Yes  Yes  Software  SiMATIC Software  Optionally in package with SIMATIC WinCC or WinCC flexible  Accessories  Accessory components  Touch protective foil  Dimensions  Overall depth  Additional mounting depth (optical drive)  Operator panel width  Operator panel height  100 mm  Operator panel height  101 mm  Install. dimensions, centralized design (W x H x D without optical drive) in mm  Touch protective optical drive in mm  Overall deptine in mm  Operator control unit (W x H) in mm	• max.	45 °C
Vibrations  • Vibration load in operation  • Vibration load in operation  Tested to DIN IEC 60068-2-6: 20 Hz to 58 Hz: 0.0185 mm, 58 Hz to 200 Hz: 2.5 m/s² (0.25g)  Shock testing  • Shock load during operation  Tested to DIN IEC 60068-2-6: 20 Hz to 58 Hz: 0.0185 mm, 58 Hz to 200 Hz: 2.5 m/s² (0.25g)  Shock load during operation  Tested to DIN IEC 60068-2-29: 10 m/s² (1g), 30 ms, 100 shocks  Operating systems  Operating system  Windows 2000 Prof. (Multi-Language), Windows XP Prof. (Multi-Language), opt. without operating system  Pre-installed operating system  Wilti-Language: DE, EN, IT, FR, SP, KOR, CHN (Traditional), CHN (Simplified), JPN  Without operating system  • Windows XP Professional  Yes  Software  SIMATIC Software  Optionally in package with SIMATIC WinCC or WinCC flexible  Accessories  Accessory components  Touch protective foil  Dimensions  Overall depth  • additional mounting depth (optical drive)  Operator control unit (W x H) in mm  • Operator panel width  • Operator panel width  • Operator panel height  Install. dimensions, centralized design (W x H x D without optical drive) in mm	Relative humidity	
Vibration load in operation     Tested to DIN IEC 60068-2-6: 20 Hz to 58 Hz: 0.0185 mm, 58 Hz to 200 Hz: 2.5 m/s² (0.25g)  Shock testing     Shock load during operation     Tested to DIN IEC 60068-2-29: 10 m/s² (1g), 30 ms, 100 shocks  Operating systems  Operating system     Windows 2000 Prof. (Multi-Language), Windows XP Prof. (Multi-Language), opt. without operating system  Pre-installed operating system     Windows 2000 Prof. (Multi-Language), Windows XP Prof. (Multi-Language), opt. without operating system  Pre-installed operating system     Yes  Pre-installed operating system  Windows XP Professional  Yes  Software  SIMATIC Software  Optionally in package with SIMATIC WinCC or WinCC flexible  Accessories  Accessory components  Touch protective foil  Dimensions  Overall depth     additional mounting depth (optical drive) Operator control unit (W x H) in mm     Operator panel width     Operator panel width     Operator panel height  Install. dimensions, centralized design (W x H x D without optical drive) in mm  Install. dimensions, centralized design (W x H x D without optical drive) in mm	Relative humidity	
Shock testing  Shock load during operation  Tested to DIN IEC 60068-2-29: 10 m/s² (1g), 30 ms, 100 shocks  Operating systems  Operating system  Operating system  Windows 2000 Prof. (Multi-Language), Windows XP Prof. (Multi-Language), opt. without operating system  Pre-installed operating system  Additional info on operating system  Windows 2000 Prof. (Multi-Language), opt. without operating system  Pre-installed operating system  Without operating system  Windows XP Professional  Yes  Software  SIMATIC Software  Optionally in package with SIMATIC WinCC or WinCC flexible  Accessories  Accessory components  Touch protective foil  Dimensions  Overall depth  additional mounting depth (optical drive)  Operator control unit (W x H) in mm  Operator panel width  Operator panel height  Install. dimensions, centralized design (W x H x D without optical drive) in mm	Vibrations	
Shock load during operation  Tested to DIN IEC 60068-2-29: 10 m/s² (1g), 30 ms, 100 shocks  Operating systems  Windows 2000 Prof. (Multi-Language), Windows XP Prof. (Multi-Language), windows XP Prof. (Multi-Language), opt. without operating system  Pre-installed operating system  Without operating system  Without operating system  Windows XP Professional  Yes  Software  SIMATIC Software  Optionally in package with SIMATIC WinCC or WinCC flexible  Accessories  Accessory components  Touch protective foil  Dimensions  Overall depth  additional mounting depth (optical drive)  Operator control unit (W x H) in mm  Operator panel width  Operator panel height  Install. dimensions, centralized design (W x H x D without optical drive) in mm  Tested to DIN IEC 60068-2-29: 10 m/s² (1g), 30 ms, 100 shocks  Windows XP Prof. (Multi-Language), Windows XP Prof	<ul> <li>Vibration load in operation</li> </ul>	
Operating systems  Operating system  Windows 2000 Prof. (Multi-Language), Windows XP Prof. (Multi-Language), opt. without operating system  Pre-installed operating system  Additional info on operating system  Without operating system  Yes  Without operating system  Windows XP Professional  Yes  Software  SIMATIC Software  Optionally in package with SIMATIC WinCC or WinCC flexible  Accessories  Accessory components  Touch protective foil  Dimensions  Overall depth  additional mounting depth (optical drive)  Operator control unit (W x H) in mm  Operator panel width  Operator panel width  Operator panel height  Install. dimensions, centralized design (W x H x D) without optical drive) in mm	Shock testing	
Operating system  Windows 2000 Prof. (Multi-Language), Windows XP Prof. (Multi-Language), opt. without operating system  Pre-installed operating system  Yes  Additional info on operating system  Multi-Language: DE, EN, IT, FR, SP, KOR, CHN (Traditional), CHN (Simplified), JPN  without operating system  Yes  Pre-installed operating system  Windows XP Professional  Yes  Software  SIMATIC Software  Optionally in package with SIMATIC WinCC or WinCC flexible  Accessories  Accessory components  Touch protective foil  Dimensions  Overall depth  additional mounting depth (optical drive)  Operator control unit (W x H) in mm  Operator panel width  Operator panel width  Operator panel height  Install. dimensions, centralized design (W x H x D without optical drive) in mm	Shock load during operation	Tested to DIN IEC 60068-2-29: 10 m/s² (1g), 30 ms, 100 shocks
Language), opt. without operating system  Pre-installed operating system  Additional info on operating system  Multi-Language: DE, EN, IT, FR, SP, KOR, CHN (Traditional), CHN (Simplified), JPN  without operating system  • Windows XP Professional  Yes  Software  SIMATIC Software  Optionally in package with SIMATIC WinCC or WinCC flexible  Accessories  Accessory components  Touch protective foil  Dimensions  Overall depth  • additional mounting depth (optical drive)  Operator control unit (W x H) in mm  • Operator panel width  • Operator panel height  Install. dimensions, centralized design (W x H x D without optical drive) in mm  Language), opt. without optical gystem  Yes  Multi-Language: DE, EN, IT, FR, SP, KOR, CHN (Traditional), CHN (Simplified), JPN  Yes  Yes  Yes  Action 19	Operating systems	
Additional info on operating system  Multi-Language: DE, EN, IT, FR, SP, KOR, CHN (Traditional), CHN (Simplified), JPN  without operating system  • Windows XP Professional  Yes  Software  SIMATIC Software  Accessories  Accessory components  Touch protective foil  Dimensions  Overall depth  • additional mounting depth (optical drive)  Operator control unit (W x H) in mm  • Operator panel width  • Operator panel height  Install. dimensions, centralized design (W x H x D without optical drive) in mm  Multi-Language: DE, EN, IT, FR, SP, KOR, CHN (Traditional), CHN (Simplified), JPN  Yes  Optionally in package with SIMATIC WinCC or WinCC flexible  27 mm  400x310 (7 HU)  400 mm  310 mm  Install. dimensions, centralized design (W x H x D without optical drive) in mm	Operating system	, , , , , , , , , , , , , , , , , , , ,
without operating system  yes  pre-installed operating system  ● Windows XP Professional  Software  SIMATIC Software  Optionally in package with SIMATIC WinCC or WinCC flexible  Accessories  Accessory components  Touch protective foil  Dimensions  Overall depth  ● additional mounting depth (optical drive)  Operator control unit (W x H) in mm  ● Operator panel width  ● Operator panel height  Install. dimensions, centralized design (W x H x D without optical drive) in mm  Without optical drive) in mm	pre-installed operating system	Yes
Pre-installed operating system  ● Windows XP Professional  Software  SIMATIC Software  Optionally in package with SIMATIC WinCC or WinCC flexible  Accessories  Accessory components  Touch protective foil  Dimensions  Overall depth  ● additional mounting depth (optical drive)  Operator control unit (W x H) in mm  ● Operator panel width  ● Operator panel height  Install. dimensions, centralized design (W x H x D without optical drive) in mm  Without optical drive) in mm	Additional info on operating system	
Windows XP Professional  Software  SIMATIC Software  Optionally in package with SIMATIC WinCC or WinCC flexible  Accessories  Accessory components  Touch protective foil  Dimensions  Overall depth      additional mounting depth (optical drive)  Operator control unit (W x H) in mm      Operator panel width     Operator panel height  Install. dimensions, centralized design (W x H x D without optical drive) in mm  Yes  Optionally in package with SIMATIC WinCC or WinCC flexible  27 mm  400x310 (7 HU)  400 mm  310 mm  368 mm x 290 mm x 152 mm	without operating system	Yes
Software  SIMATIC Software  Optionally in package with SIMATIC WinCC or WinCC flexible  Accessories  Accessory components  Touch protective foil  Dimensions  Overall depth  • additional mounting depth (optical drive)  Operator control unit (W x H) in mm  • Operator panel width  • Operator panel height  Install. dimensions, centralized design (W x H x D without optical drive) in mm	pre-installed operating system	
SIMATIC Software  Optionally in package with SIMATIC WinCC or WinCC flexible  Accessories  Accessory components  Touch protective foil  Dimensions  Overall depth  • additional mounting depth (optical drive)  Operator control unit (W x H) in mm  • Operator panel width  • Operator panel height  Install. dimensions, centralized design (W x H x D without optical drive) in mm	<ul> <li>Windows XP Professional</li> </ul>	Yes
Accessory components  Touch protective foil  Dimensions  Overall depth  • additional mounting depth (optical drive)  Operator control unit (W x H) in mm  • Operator panel width  • Operator panel height  Install. dimensions, centralized design (W x H x D without optical drive) in mm	Software	
Accessory components  Touch protective foil  Dimensions  Overall depth  additional mounting depth (optical drive)  Operator control unit (W x H) in mm  Operator panel width  Operator panel height  Install. dimensions, centralized design (W x H x D without optical drive) in mm  Touch protective foil  27 mm  400x310 (7 HU)  400 mm  310 mm  368 mm x 290 mm x 152 mm	SIMATIC Software	Optionally in package with SIMATIC WinCC or WinCC flexible
Overall depth  • additional mounting depth (optical drive)  Operator control unit (W x H) in mm  • Operator panel width  • Operator panel height  Install. dimensions, centralized design (W x H x D without optical drive) in mm  Overall depth  27 mm  400x310 (7 HU)  400 mm  310 mm  310 mm	Accessories	
Overall depth  • additional mounting depth (optical drive)  Operator control unit (W x H) in mm  • Operator panel width  • Operator panel height  Install. dimensions, centralized design (W x H x D without optical drive) in mm  27 mm  400x310 (7 HU)  400 mm  310 mm  310 mm	Accessory components	Touch protective foil
<ul> <li>additional mounting depth (optical drive)</li> <li>Operator control unit (W x H) in mm</li> <li>Operator panel width</li> <li>Operator panel height</li> <li>Install. dimensions, centralized design (W x H x D without optical drive) in mm</li> <li>27 mm</li> <li>400x310 (7 HU)</li> <li>400 mm</li> <li>310 mm</li> <li>368 mm x 290 mm x 152 mm</li> </ul>		
Operator control unit (W x H) in mm  Operator panel width  Operator panel height  Install. dimensions, centralized design (W x H x D without optical drive) in mm  400x310 (7 HU)  400 mm  310 mm  310 mm	Overall depth	
● Operator panel width  ● Operator panel height  Install. dimensions, centralized design (W x H x D without optical drive) in mm  400 mm  310 mm  368 mm x 290 mm x 152 mm		27 mm
Operator panel height  Install. dimensions, centralized design (W x H x D without optical drive) in mm  310 mm  368 mm x 290 mm x 152 mm		
Install. dimensions, centralized design (W x H x D without optical drive) in mm		
without optical drive) in mm		
• Width 368 mm		368 mm x 290 mm x 152 mm
	• Width	368 mm

290 mm Height 152 mm • Depth Weights Panel PC in central design, approx. 11 kg Other

24 mo; Warranty period

08/29/2017 last modified:

Warranty period