SIEMENS

Data sheet

6AV7822-0AB10-1AC0

SIMATIC PANEL PC 577 15" TOUCH; 1024X768; STANDARD AC110-230V, POWER CABLE EUROPE PENTIUM 4 2,4 GHZ; 512MB DDR400 SDRAM (2X256MB); 40 GBYTE HARDDISK 2,5"; DVD-ROM; WINDOWS XP PROF. SP2 MUI

Display	
Design of display	15" TFT touch
Screen diagonal	15 in
Resolution (pixels)	
 Horizontal image resolution 	1 024 Pixel
 Vertical image resolution 	768 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	
 Function keys 	No
 alphanumeric keyboard 	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
Interfaces	
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
Integrated Functions	
Monitoring functions	
Temperature monitoring	Yes
Watchdog	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	

• Germanischer Lloyd (GL) No • American Bureau of Shipping (ABS) No • Bureau Varitas (BV) No • Det Norske Veritas (DNV) No • Lloyds Register of Shipping (LRS) No • Polski Registr Statkow (PRS) No Ambient temperature during operation +5 °C to +45 °C with full configuration • Ambient temperature during operation +5 °C to +45 °C with full configuration • rana. 45 °C Relative humidity Tested to DIN IEC 60068-2-63. DIN IEC 60068-2-63. DIN IEC 60068-2-63. DIN IEC 60068-2-65. 20 hz to 58 Hz: 0.0185 mm, 58 Hz to 200 Hz: 2.5 m/s ⁴ (0.25g) Shock testing Tested to DIN IEC 60068-2-65. 20 Hz to 58 Hz: 0.0185 mm, 58 Hz to 200 Hz: 2.5 m/s ⁴ (0.25g) Shock testing Tested to DIN IEC 60068-2-62. 20 Hz to 58 Hz: 0.0185 mm, 58 Hz to 200 Hz: 2.5 m/s ⁴ (0.25g) Shock testing Vibration load in operation Tested to DIN IEC 60068-2-62. 20 Hz to 58 Hz: 0.0185 mm, 50 Hz to 200 Hz: 2.5 m/s ⁴ (0.25g) Shock testing Vibration load in operation Tested to DIN IEC 60068-2-62. 20 Hz to 58 Hz: 0.0185 mm, 50 Hz to 200 Hz: 2.5 m/s ⁴ (0.25g) Shock testing Vibration load in operation Tested to DIN IEC 60068-2-62. 20 Hz to 58 Hz: 0.0185 mm, 50 Hz to 200 Hz to 58 Hz: 0.0185 mm, 50 Hz to 50		
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ILloyds Register of Shipping (LRS) No Polski Rejestr Statkow (PRS) No Ambient temperature during operation +5 °C to +45 °C with full configuration • Ambient temperature during operation +5 °C to +45 °C with full configuration • min. 5 °C • miax. 45 °C 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 Tested to DIN IEC 60068-2-62. 20 Hz to 58 Hz: 0.0165 mm, 58 Hz to 20 Hz: 2.5 m/s² (0.25g) Shock testing Tested to DIN IEC 60068-2-92. 10 m/s² (1g), 30 ms, 100 shocks Operating system Vibration load in operation Tested to DIN IEC 60068-2-92. 10 m/s² (1g), 30 ms, 100 shocks Operating system Ves Multi-Language), 00 m/s² (1g), 30 ms, 100 shocks Operating system Yes Multi-Language: DE, EN, IT, FR, SP, KOR, CHN (Traditional), CHN (Simplified), JPN without operating system Yes Multi-Language: DE, EN, IT, FR, SP, KOR, CHN (Traditional), CHN (Simplified), JPN without operating system Yes Software Software Optionally in package with SIMATIC WinCC or WinCC flexible Accessory components Touch protective foil Dinearions Touch protective	• Bureau Veritas (BV)	No
Polski Rejest Statkow (PRS) No Ambient conditions Ambient temperature during operation • Ambient temperature during operation • inin. • and is temperature during operation • inin. • inin. • area. • Ambient temperature during operation • inin. • inin. • area. 45 °C to +45 °C with full configuration • inin. • freature humidity • Relative humidity Tested to DIN IEC 60068-2-3, DIN IEC 60068-2-30, DIN IEC 60068-2-66. 5% to 80% at 25 °C (no condensation) Vibrations • Relative humidity • Vibration load in operation Tested to DIN IEC 60068-2-62. 20 Hz to 58 Hz: 0.0185 mm, 58 Hz to 200 Hz: 2.5 m/s² (0.25g) Shock testing • Vibration load in operation Tested to DIN IEC 60068-2-29: 10 m/s² (1g), 30 ms, 100 shocks Operating system • Shock load during operation • Shock load during operation Tested to DIN IEC 60068-2-29: 10 m/s² (1g), 30 ms, 100 shocks • Operating system Vindows 2000 Prof. (Multi-Language), Windows XP Prof. (Multi-Language), Qpt. without operating system pre-installed operating system Yes Software	 Det Norske Veritas (DNV) 	No
Ambient conditions Ambient temperature during operation • Ambient temperature during operation • min. • max. 46 'C Relative humidity • 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/s ⁺ (0.25g) Shock testing • Shock load during operation • Shock load during operation Tested to DIN IEC 60068-2-29: 10 m/s ² (1g), 30 ms, 100 shocks Operating system • Shock load during operation Tested to DIN IEC 60068-2-29: 10 m/s ² (1g), 30 ms, 100 shocks Operating system • Shock load during operation Vibrational info on operating system Yes re	 Lloyds Register of Shipping (LRS) 	No
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• Ambient temperature during operation +5 °C to +45 °C with full configuration • max. 5 °C • max. 45 °C Relative humidity Tested to DIN IEC 60068-2-30, DIN IEC 60068-2-30, DIN IEC 60068-2-30, DIN IEC 60068-2-56; 5% to 80% at 25 °C (no condensation) Vibrations 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 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 system Tested to DIN IEC 60068-2-29; 10 m/s² (1g), 30 ms, 100 shocks Operating system Ves Additional info on operating system Yes Additional info on operating system Yes vindows XP Professional Yes Software Optionally in package with SIMATIC WinCC or WinCC flexible Accessory components Touch protective foil Accessory components 27 mm Operator panel height 483 mm x 310 mm (19°, 7 HU) • Operator panel height 483 mm x 310 mm (19°, 7 HU) • Operator panel height 310 mm	Ambient conditions	
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Relative humidity Tested to DIN IEC 60068-2-3, DIN IEC 60068-2-30, DIN IEC 60068-2-50, DIN IEC 60068-2-30, DIN IEC 60068-2-29, ID IN/s ² (1g), 30 ms, 100 shocks Operating system Tested to DIN IEC 60068-2-29; ID IN/s ² (1g), 30 ms, 100 shocks Multi-Language, opt. without operating system operating system Yes Yes Yes Yes Yes Software Optionally in package with SIMATIC WinCC or WinCC flexible Accessory components Touch protective foil Distensions Overall depth 4aditional mounting depth (optical drive) 27 mm 483 mm x 310 mm (19", 7 HU) 483 mm X 310 mm (19", 7 HU) 48	• min.	5 °C
• Relative humidity Tested to DIN IEC 60068-2-3, DIN IEC 60068-2-3, DIN IEC 60068-2-30, DIN IEC 60068-2-30, DIN IEC 60068-2-50; % to 80% at 25 °C (no condensation) Vibrations 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 Tested to DIN IEC 60068-2-9; 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 60068-2-9; 10 m/s² (1g), 30 ms, 100 shocks Operating systems Vindows 2000 Prof. (Multi-Language), Windows XP Prof. (Multi-Language), opt. without operating system pre-installed operating system Yes Additional info on operating system Yes without operating system Yes software Optionally in package with SIMATIC WinCC or WinCC flexible Accessories Touch protective foil Overall depth 430 mm x 310 mm (19°, 7 HU) • Operator panel width 310 mm • Operator panel height 310 mm	• max.	45 °C
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 • Shock load during operation Tested to DIN IEC 60068-2-29: 10 m/s² (1g), 30 ms, 100 shocks Operating systems 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 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 Software Software Software Optionally in package with SIMATIC WinCC or WinCC flexible Accessory components Touch protective foil Dimensions 27 mm Operator ontol unit (W x H) in mm 483 mm x 310 mm (19", 7 HU) • Operator panel width 310 mm • Operator panel width 310 mm • Operator panel height 310 mm	Relative humidity	
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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 Windows 2000 Prof. (Multi-Language), Windows XP Prof. (Multi-Language), opt. without operating system pre-installed operating system Yes Additional info on 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 Yes Software Ves Software Optionally in package with SIMATIC WinCC or WinCC flexible Accessories Touch protective foil Accessory components Touch protective foil Dimensions 27 mm Operator control unit (W x H) in mm 483 mm x 310 mm (19", 7 HU) • Operator panel width 483 mm • Operator panel height 310 mm Install. dimensions, centralized design (W x H x D without optical drive) in mm 450x290x155	Vibrations	
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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 Yes • Windows XP Professional Yes Software Optionally in package with SIMATIC WinCC or WinCC flexible Accessories Accessory components Overall depth • additional mounting depth (optical drive) 0 Operator control unit (W x H) in mm 483 mm x 310 mm (19", 7 HU) • Operator panel height 310 mm Install. dimensions, centralized design (W x H x D without optical drive) in mm 450x290x155	Operating system	
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pre-installed operating system• Windows XP ProfessionalYesSoftwareOptionally in package with SIMATIC WinCC or WinCC flexibleAccessoriesOptionally in package with SIMATIC WinCC or WinCC flexibleAccessory componentsTouch protective foilDimensions27 mmOverall depth27 mm• additional mounting depth (optical drive)27 mmOperator control unit (W x H) in mm483 mm x 310 mm (19", 7 HU)• Operator panel width310 mm• Install. dimensions, centralized design (W x H x D without optical drive) in mm450x290x155	Additional info on operating system	
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AccessoriesAccessory componentsTouch protective foilDimensionsOverall depth • additional mounting depth (optical drive)27 mmOperator control unit (W x H) in mm483 mm x 310 mm (19", 7 HU)• Operator panel width • Operator panel height310 mmInstall. dimensions, centralized design (W x H x D without optical drive) in mm450x290x155	Software	
Accessory components Touch protective foil Dimensions Overall depth • additional mounting depth (optical drive) 27 mm Operator control unit (W x H) in mm 483 mm x 310 mm (19", 7 HU) • Operator panel width 483 mm • Operator panel height 310 mm Install. dimensions, centralized design (W x H x D without optical drive) in mm 450x290x155	SIMATIC Software	Optionally in package with SIMATIC WinCC or WinCC flexible
Dimensions Overall depth 27 mm • additional mounting depth (optical drive) 27 mm Operator control unit (W x H) in mm 483 mm x 310 mm (19", 7 HU) • Operator panel width 483 mm • Operator panel height 310 mm Install. dimensions, centralized design (W x H x D without optical drive) in mm 450x290x155	Accessories	
Overall depth• additional mounting depth (optical drive)27 mmOperator control unit (W x H) in mm483 mm x 310 mm (19", 7 HU)• Operator panel width483 mm• Operator panel height310 mmInstall. dimensions, centralized design (W x H x D without optical drive) in mm450x290x155	Accessory components	Touch protective foil
• additional mounting depth (optical drive)27 mmOperator control unit (W x H) in mm483 mm x 310 mm (19", 7 HU)• Operator panel width483 mm• Operator panel height310 mmInstall. dimensions, centralized design (W x H x D without optical drive) in mm450x290x155	Dimensions	
Operator control unit (W x H) in mm 483 mm x 310 mm (19", 7 HU) • Operator panel width 483 mm • Operator panel height 310 mm Install. dimensions, centralized design (W x H x D without optical drive) in mm 450x290x155	Overall depth	
• Operator panel width 483 mm • Operator panel height 310 mm Install. dimensions, centralized design (W x H x D without optical drive) in mm 450x290x155	 additional mounting depth (optical drive) 	27 mm
Operator panel height Silo mm Install. dimensions, centralized design (W x H x D without optical drive) in mm	Operator control unit (W x H) in mm	483 mm x 310 mm (19", 7 HU)
Install. dimensions, centralized design (W x H x D without optical drive) in mm	 Operator panel width 	483 mm
without optical drive) in mm	 Operator panel height 	310 mm
• Width 450 mm		450x290x155
	• Width	450 mm

HeightDepth	290 mm 155 mm
Weights	
Panel PC in central design, approx.	13 kg
Other	
Warranty period	24 mo; Warranty period

last modified:

08/29/2017