SIEMENS



Data sheet

6AV2143-8MB50-0AA0

SIMATIC HMI, IWP1200, Industrial Web panel, key/touch operation, 12" TFT display, 65536 colors, PROFINET interface, HTML5, stand-alone, no WinCC configuration required, contains Open Source software, which is provided free of charge

General information	provided free of charge
	IWP1200
Product type designation	
Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	12 in
Display width	261.1 mm
Display height	163.2 mm
Number of colors	65 536
Resolution (pixels)	
Horizontal image resolution	1 280 pixel
Vertical image resolution	800 pixel
Backlighting	
• MTBF backlighting (at 25 °C)	20 000 h
Backlight dimmable	Yes
Control elements	
Keyboard fonts	
 Function keys 	
 Number of function keys 	8
 — Number of function keys with LEDs 	0
 Keys with LED 	No
 System keys 	No
 Numeric keyboard 	Yes; Onscreen keyboard
 alphanumeric keyboard 	Yes; Onscreen keyboard
Touch operation	
 Design as touch screen 	Yes; Analog-resistive
 Design as multi-touch screen 	No
Monitor keyboard	Yes
Installation type/mounting	
Mounting type	Mounting clips
Mounting position	vertical
Mounting in portrait format possible	Yes
Mounting in landscape format possible	Yes
maximum permissible angle of inclination without external ventilation	35°
RFID reader can be installed	No
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption (rated value)	510 mA
Starting current inrush I ² t	0.2 A ² ·s
Power	
Active power input, typ.	12.2 W
Processor	
Processor type	ARM
Memory	
Type of memory	DDR3-SDRAM
Flash	Yes

RAM	Yes	VICDAS
Memory available for user data	10 Mbyte	HMI Parts Center
Type of output		
Acoustics		
• Buzzer	Yes	
• Speaker	No	
Time of day		
Clock		
Hardware clock (real-time)	Yes	
Software clock	Yes	
retentive	Yes; Back-up duration typically 6 weeks	
synchronizable	Yes	
Interfaces		
Number of industrial Ethernet interfaces	1	
Number of RS 485 interfaces	0	
Number of RS 422 interfaces	0	
Number of RS 232 interfaces	0	
Number of USB interfaces	1; Up to 16 GB	
Number of 20 mA interfaces (TTY)	0	
Number of parallel interfaces	0	
Number of other interfaces	0	
Number of SD card slots	0	
With software interfaces	No	
Industrial Ethernet		
 Industrial Ethernet status LED 	2	
Protocols		
PROFINET	Yes	
Supports protocol for PROFINET IO	No	
IRT	No	
PROFIBUS	No	
EtherNet/IP	No	
MPI Direteeple (Ethernet)	No	
Protocols (Ethernet) • TCP/IP	Yes	
• DHCP	Yes	
• SNMP	Yes	
• DCP	Yes	
• LLDP	Yes	
WEB characteristics		
• HTTP	Yes	
• HTTPS	Yes	
• HTML	Yes	
• XML	Yes	
• CSS	Yes	
JavaScript	Yes	
Redundancy mode		
Media redundancy		
— MRP	No	
Further protocols		
MODBUS	No	
EMC		
Emission of radio interference acc. to EN 55 011		
 Limit class A, for use in industrial areas 	Yes	
 Limit class B, for use in residential areas 	No	
Degree and class of protection		
IP (at the front)	IP65	
IP (rear)	IP20	
NEMA (front)		
 Enclosure Type 4 at the front 	Yes	
 Enclosure Type 4x at the front 	Yes	
Standards, approvals, certificates		
CE mark	Yes	

cULus	Yes	VICDAS
RCM (formerly C-TICK)	No	HMI Parts Center
KC approval	No	
Use in hazardous areas		
ATEX Zone 2	No	
ATEX Zone 22	No	
IECEx Zone 2	No	
IECEx Zone 22	No	
 cULus Class I Zone 1 	No	
 cULus Class I Zone 2, Division 2 	No	
 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	
 Nippon Kaiji Kyokai (Class NK) 	No	
 Polski Rejestr Statkow (PRS) 	No	
 Chinese Classification Society (CCS) 	No	
Ambient conditions		
Ambient temperature during operation		
Operation (vertical installation)		
— For vertical installation, min.	0°C	
— For vertical installation, max.	50 °C	
Operation (max. tilt angle)	00 0	
— At maximum tilt angle, min.	0°C	
— At maximum tilt angle, max.	40 °C	
Operation (vertical installation, portrait format)		
— For vertical installation, min.	0°C	
— For vertical installation, max.	40 °C	
Operation (max. tilt angle, portrait format)		
— At maximum tilt angle, min.	0°C	
— At maximum tilt angle, max.	35 °C	
Ambient temperature during storage/transportation	33 O	
min.	-20 °C	
• max.	60 °C	
Relative humidity	00 0	
Operation, max.	90 %; no condensation	
Operating systems		
proprietary	Yes	
pre-installed operating system	No	
Windows CE	No	
Languages		
Online languages		
 Number of online/runtime languages 	2	
Peripherals/Options		
Printer	No	
SIMATIC HMI MM memory card: Multi Media Card	No	
SIMATIC HMI SD memory card: Secure Digital memory	No	
card		
SIMATIC HMI CF memory card Compact Flash Card	No	
USB memory	Yes	
SIMATIC IPC USB Flashdrive (USB stick)	Yes	
SIMATIC HMI USB stick	Yes	
Mechanics/material		
Enclosure material (front)		
Plastic	Yes	
Aluminum	No	
Stainless steel	No	
Dimensions		
Width of the housing front	330 mm	

Height of housing front Mounting cutout, width Mounting cutout, height Overall depth	245 mm 310 mm 221 mm 60 mm	VICPAS HMI Parts Center
Weights		
Weight (without packaging)	1 710 g	
Weight (with packaging)	2.2 kg	

last modified:

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