

Data sheet

6AV2143-8GB50-0AA0



SIMATIC HMI, IWP700, Industrial Web panel, key/touch operation, 7" 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		
Product type designation	IWP700	
Display		
Design of display	TFT widescreen display, LED backlighting	
Screen diagonal	7 in	
Display width	154.1 mm	
Display height	85.9 mm	
Number of colors	65 536	
Resolution (pixels)		
 Horizontal image resolution 	800 pixel	
Vertical image resolution	480 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		

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Current consumption (rated value)	230 mA	VICPAS
Starting current inrush I²t	0.2 A ² ·s	HMI Parts Center
Power		
Active power input, typ.	5.5 W	
Processor		
Processor type	ARM	
Memory		
Type of memory	DDR3-SDRAM	
Flash	Yes	
RAM	Yes	
Memory available for user data	10 Mbyte	
	10 Mbyte	
Type of output		
Acoustics	V	
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	No	
Supports protocol for PROFINET IO	No	
IRT	No	
PROFIBUS	No	
EtherNet/IP	No	
MPI	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	
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• Limit class B, for use in residential areas	No VICPAS
Degree and class of protection	HMI Parts Center
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
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)	
— At maximum tilt angle, min.	0 °C
At maximum tilt angle, max.	40 °C
Operation (vertical installation, portrait format)	10 0
— 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	
• min.	-20 °C
• max.	60 °C
Relative humidity	
Operation, max.	90 %; no condensation
Operation systems	
	Yes
proprietary	1 53
pre-installed operating system • Windows CE	No
	No
Software	
Web browser	Yes
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	110
SIMATIC HMI CF memory card Compact Flash Card	No
USB memory	Yes
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SIMATIC IPC USB Flashdrive (USB stick)	Yes	VICPAS
SIMATIC HMI USB stick	Yes	HMI Parts Center
Mechanics/material		
Enclosure material (front)		
 Plastic 	Yes	
Aluminum	No	
Stainless steel	No	
Dimensions		
Width of the housing front	214 mm	
Height of housing front	158 mm	
Mounting cutout, width	197 mm	
Mounting cutout, height	141 mm	
Overall depth	39 mm	
Weights		
Weight (without packaging)	780 g	
Weight (with packaging)	990 g	
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