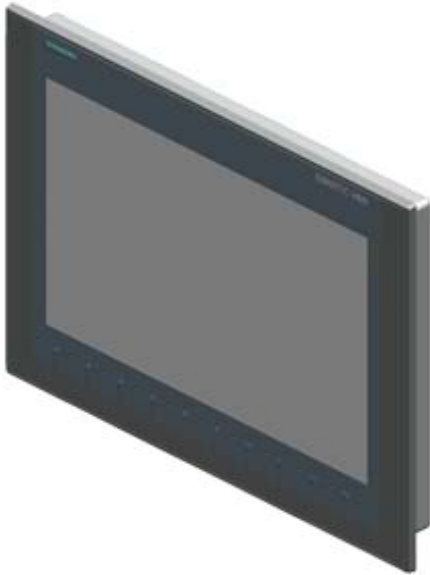


SIMATIC HMI, IWP1200, Industrial Web panel, key/touch operation, 12" TFT display, 65536 colors, PROFINET interface, HTML5, stand-alone, no WinCC configuration required, contains Open Source software, which is provided free of charge



### General information

Product type designation	IWP1200
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### 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 |

• Keys with LED	No
• System keys	No
• Numeric keyboard	Yes; Onscreen keyboard
• alphanumeric keyboard	Yes; Onscreen keyboard
<b>Touch operation</b>	
• Design as touch screen	Yes
• Design as multi-touch screen	No
• Monitor keyboard	Yes
<b>Installation type/mounting</b>	
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
<b>Supply voltage</b>	
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
<b>Input current</b>	
Current consumption (rated value)	510 mA
Starting current inrush I <sup>2</sup> t	0.2 A <sup>2</sup> ·s
<b>Power</b>	
Active power input, typ.	12.2 W
<b>Processor</b>	
Processor type	ARM
<b>Memory</b>	
Type of memory	DDR3-SDRAM
Flash	Yes
RAM	Yes
Memory available for user data	10 Mbyte
<b>Type of output</b>	
Acoustics	
• Buzzer	Yes
• Speaker	No
<b>Time of day</b>	
Clock	
• Hardware clock (real-time)	Yes

- Software clock
- retentive
- synchronizable

Yes  
 Yes; Back-up duration typically 6 weeks  
 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
MPI	No

### Protocols (Ethernet)

- TCP/IP
- DHCP
- SNMP
- DCP
- LLDP

Yes  
 Yes  
 Yes  
 Yes  
 Yes

### WEB characteristics

- HTTP
- HTTPS
- HTML
- XML
- CSS
- JavaScript

Yes  
 Yes  
 Yes  
 Yes  
 Yes  
 Yes

### Redundancy mode

#### Media redundancy

- MRP

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)	
<ul style="list-style-type: none"> <li>• Enclosure Type 4 at the front</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Enclosure Type 4x at the front</li> </ul>	Yes

### Standards, approvals, certificates

CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	No
KC approval	No

### Use in hazardous areas

<ul style="list-style-type: none"> <li>• ATEX Zone 2</li> </ul>	No
<ul style="list-style-type: none"> <li>• ATEX Zone 22</li> </ul>	No
<ul style="list-style-type: none"> <li>• IECEx Zone 2</li> </ul>	No
<ul style="list-style-type: none"> <li>• IECEx Zone 22</li> </ul>	No
<ul style="list-style-type: none"> <li>• cULus Class I Zone 1</li> </ul>	No
<ul style="list-style-type: none"> <li>• cULus Class I Zone 2, Division 2</li> </ul>	No
<ul style="list-style-type: none"> <li>• FM Class I Division 2</li> </ul>	No

### Marine approval

<ul style="list-style-type: none"> <li>• Germanischer Lloyd (GL)</li> </ul>	No
<ul style="list-style-type: none"> <li>• American Bureau of Shipping (ABS)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Bureau Veritas (BV)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Det Norske Veritas (DNV)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Lloyds Register of Shipping (LRS)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Nippon Kaiji Kyokai (Class NK)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Polski Rejestr Statkow (PRS)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Chinese Classification Society (CCS)</li> </ul>	No

### Ambient conditions

Ambient temperature during operation	
<ul style="list-style-type: none"> <li>• Operation (vertical installation)           <ul style="list-style-type: none"> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> </ul> </li> </ul>	<p>0 °C</p> <p>50 °C</p>
<ul style="list-style-type: none"> <li>• Operation (max. tilt angle)           <ul style="list-style-type: none"> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, min.</li> </ul> </li> </ul>	<p>0 °C</p> <p>40 °C</p>
<ul style="list-style-type: none"> <li>• Operation (vertical installation, portrait format)           <ul style="list-style-type: none"> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> </ul> </li> </ul>	<p>0 °C</p> <p>40 °C</p>

<ul style="list-style-type: none"> <li>• Operation (max. tilt angle, portrait format) <ul style="list-style-type: none"> <li>— At maximum tilt angle, min. 0 °C</li> <li>— At maximum tilt angle, min. 35 °C</li> </ul> </li> </ul>	
<b>Ambient temperature during storage/transportation</b>	
<ul style="list-style-type: none"> <li>• min. -20 °C</li> <li>• max. 60 °C</li> </ul>	
<b>Relative humidity</b>	
<ul style="list-style-type: none"> <li>• Operation, max. 90 %; no condensation</li> </ul>	
<b>Operating systems</b>	
proprietary	Yes
<b>pre-installed operating system</b>	
<ul style="list-style-type: none"> <li>• Windows CE</li> </ul>	No
<b>Languages</b>	
<b>Online languages</b>	
<ul style="list-style-type: none"> <li>• Number of online/runtime languages</li> </ul>	2
<b>Peripherals/Options</b>	
Printer	No
SIMATIC HMI MM memory card: Multi Media Card	No
SIMATIC HMI SD memory card: Secure Digital memory card	No
SIMATIC HMI CF memory card Compact Flash Card	No
USB memory	Yes
SIMATIC IPC USB Flashdrive (USB stick)	Yes
SIMATIC HMI USB stick	Yes
<b>Mechanics/material</b>	
Enclosure material (front)	
<ul style="list-style-type: none"> <li>• Plastic</li> <li>• Aluminum</li> <li>• Stainless steel</li> </ul>	Yes No No
<b>Dimensions</b>	
Width of the housing front	330 mm
Height of housing front	245 mm
Mounting cutout, width	310 mm
Mounting cutout, height	221 mm
Overall depth	60 mm
<b>Weights</b>	
Weight without packaging	1 710 g
Weight incl. packaging	2.2 kg
<b>last modified:</b>	05/09/2020