## **SIEMENS**

## Data sheet

## 6AV7862-2BC00-0AA0

SIMATIC IFP1200 Basic Flat Panel 12" display (16:10), Touch, 1280 x 800 pixels, standard up to 5 m, for 24V DC, DisplayPort/VGA interface



General information	
Product type designation	IFP1200 Basic
Short designation	Basic Flat Panel 12" Touch
Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	12.1 in
On Screen Display (OSD) configuration	No
Number of colors	16 000 000; 16 million
Resolution (pixels)	
<ul> <li>Horizontal image resolution</li> </ul>	1 280 Pixel
<ul> <li>Vertical image resolution</li> </ul>	800 Pixel
General features	
<ul> <li>Detachable from computer unit</li> </ul>	5 m
Backlighting	
<ul> <li>Type of backlighting</li> </ul>	LED
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	50 000 h
Backlight dimmable	Yes; 0-100 %
Control elemente	
Control elements	

Power loss, typ.       13 W         Power loss, max.       60 W         Interfaces       2; USB 2.0 (downstream)         Number of USB interfaces       2; USB 2.0 (downstream)         USB on the rear       Yes; 2x onboard         Video interfaces       *         • analog video signal (VGA)       Yes         • DisplayPort       Yes         Touch interfaces       *         • USB       Yes; USB Type A         Degree and class of protection       IP65         Standards, approvals, certificates       *         CE mark       Yes; UL 61010-1, UL 61010-2-201         RCM (formerly C-TICK)       Yes         KC approval       Yes         EAC (formerly Gost-R)       Yes         FCC       Yes	Touch operation	
VESA mounting     Yes; VESA 100 x 100 integrated       Mounting in partrait format possible     Yes       Mounting in landscape format possible     Yes       Built-in unit     Yes; Portrait mode possible       maximum permitted forward tilt angle from vertical     45°       maximum permitted backward tilt angle from vertical     45°       Supply voltage     24 V DC       Rated value (DC)     24 V       permissible range, lower limit (DC)     20.4 V       permissible range, upper limit (DC)     28.8 V       Power loss     9000       Power loss, typ.     13 W       Power loss, typ.     60 W       Interfaces     2; USB 2.0 (downstream)       USB on the rear     Yes; 2x onboard       Video interfaces     2; USB 2.0 (downstream)       USB on the rear     Yes; 2x onboard       Video interfaces     2; USB 2.0 (downstream)       USB on the rear     Yes; 2x onboard       Video interfaces     2; USB 2.0 (downstream)       USB on the rear     Yes; 2x onboard       Video interfaces     2; USB 7pe A       Degree and class of protection     1P65       IP (at the front)     1P65       Standards, approvals, certificates     Yes       CC mark     Yes       GCLus     Yes       FCC     <	<ul> <li>Design as touch screen</li> </ul>	Yes; Analog-resistive
VESA mounting     Yes; VESA 100 x 100 integrated       Mounting in partrait format possible     Yes       Mounting in landscape format possible     Yes       Built-in unit     Yes; Portrait mode possible       maximum permitted forward tilt angle from vertical     45°       maximum permitted backward tilt angle from vertical     45°       Supply voltage     24 V DC       Rated value (DC)     24 V       permissible range, lower limit (DC)     20.4 V       permissible range, upper limit (DC)     28.8 V       Power loss     9000       Power loss, typ.     13 W       Power loss, typ.     60 W       Interfaces     2; USB 2.0 (downstream)       USB on the rear     Yes; 2x onboard       Video interfaces     2; USB 2.0 (downstream)       USB on the rear     Yes; 2x onboard       Video interfaces     2; USB 2.0 (downstream)       USB on the rear     Yes; 2x onboard       Video interfaces     2; USB 2.0 (downstream)       USB on the rear     Yes; 2x onboard       Video interfaces     2; USB 7pe A       Degree and class of protection     1P65       IP (at the front)     1P65       Standards, approvals, certificates     Yes       CC mark     Yes       GCLus     Yes       FCC     <	Installation type/mounting	
Mounting in partrait format possible         Yes           Mounting in landscape format possible         Yes           Buil-in unit         Yes; Portrait mode possible           maximum permitted forward tilt angle from vertical         45°           maximum permitted backward tilt angle from vertical         45°           Supply voltage         24 V DC           Rated value (DC)         24 V           permissible range, lower limit (DC)         20.4 V           permissible range, upper limit (DC)         20.4 V           permissible range, upper limit (DC)         20.4 V           Power loss, typ.         13 W           Power loss, typ.         13 W           Power loss, max.         60 W           INB for the rear         Yes; 2x onboard           Video interfaces         2; USB 2.0 (downstream)           • USB on the rear         Yes; Zx onboard           Video interfaces         2; USB Type A           Dogree and class of protection		Yes: VESA 100 x 100 integrated
Mounting in landscape format possible         Yes           Built-in unit         Yes; Portrait mode possible           maximum permitted forward tilt angle from vertical         45°           maximum permitted backward tilt angle from vertical         45°           Supply voltage         24 V DC           Rated value (DC)         24 V DC           Rated value (DC)         24 V           permissible range, lower limit (DC)         20.4 V           permissible range, upper limit (DC)         20.4 V           Power loss, typ.         13 W           Power loss, max.         60 W           Interfaces         2: USB 2.0 (downstream)           USB on the rear         Yes; 2x onboard           Video interfaces         2: USB 2.0 (downstream)           USB on the rear         Yes; 2x onboard           Video interfaces         2: USB 2.0 (downstream)           USB on the rear         Yes; 2x onboard           Video interfaces         2: USB 2.0 (downstream)           USB on the rear         Yes; 2x onboard           Video interfaces         2: USB 2.0 (downstream)           • USB         Yes; USB Type A           Degree and class of protection         IP65           IP (at the front)         IP65           S		-
Built-in unit         Yes; Portrait mode possible           maximum permitted forward tilt angle from vertical         45°           maximum permitted backward tilt angle from vertical         45°           Supply voltage         24 V DC           Rated value (DC)         24 V           permissible range, lower limit (DC)         20.4 V           permissible range, upper limit (DC)         28.8 V           Power loss, typ.         13 W           Power loss, typ.         60 W           Interfaces         21 USB 2.0 (downstream)           USB on the rear         Yes; 2x onboard           Video interfaces         21 USB 2.0 (downstream)           USB on the rear         Yes; 2x onboard           Video interfaces         21 USB 2.0 (downstream)           USB on the rear         Yes; 2x onboard           Video interfaces         21 USB 2.0 (downstream)           USB on the rear         Yes; 2x onboard           Video interfaces         22 USB 2.0 (downstream)           USB on the rear         Yes; 2x onboard           Video interfaces         22 USB 70 Per 4           Outgread class of protection         Yes; USB Type A           DisplayPont         Yes; UL 61010-1, UL 61010-2.201           RCM (formerly C-TICK)         Yes		
maximum permitted forward tilt angle from vertical         45°           supply voltage         45°           Supply voltage         24 V DC           Rated value (DC)         24 V           permissible range, lower limit (DC)         20.4 V           permissible range, upper limit (DC)         28.8 V           Power loss         60 W           Power loss, typ.         13 W           Power loss, max.         60 W           Interfaces         2: USB 2.0 (downstream)           Video interfaces         2: USB 2.0 (downstream)           USB on the rear         Yes; contoard           • olisplayPort         Yes           • olisplayPort         Yes; USB Type A           Obgree and class of protection         1P65           Parkades, approvals, certificates         Yes; UL 61010-1, UL 61010-2-201           CE mark         Yes           CLus         Yes; UL 61010-1, UL 61010-2-201           RCM (formerly C-TICK)         Yes           KC approval         Yes           FCC         Yes           Arbient temperature during operation         0°C           • min.         0°C           • min.         0°C           • min.         0°C		Yes; Portrait mode possible
Supply voltage         24 V DC           Rated value (DC)         24 V           permissible range, lower limit (DC)         20.4 V           permissible range, ower limit (DC)         28.8 V           Power loss, typ.         28.8 V           Power loss, typ.         13 W           Power loss, max.         60 W           Interfaces         50 W           Video interfaces         2: USB 2.0 (downstream)           USB on the rear         Yes; 2x onboard           Video interfaces         2: USB 2.0 (downstream)           USB on the rear         Yes; 2x onboard           Video interfaces         2: USB 2.0 (downstream)           USB on the rear         Yes; 2x onboard           Video interfaces         2: USB 2.0 (downstream)           USB on the rear         Yes; 2x onboard           Video interfaces         2: USB 2.0 (downstream)           USB on the rear         Yes; 2x onboard           Video interfaces         Yes; 2x onboard           USB on the rear         Yes; USB Type A           Degree and class of protection         Yes; UL 61010-1, UL 61010-2-201           IP (at the front)         Yes; UL 61010-1, UL 61010-2-201           RCM (formerly C-TICK)         Yes           CE mark	maximum permitted forward tilt angle from vertical	45°
Type of supply voltage     24 V DC       Rated value (DC)     24 V       permissible range, lower limit (DC)     20.4 V       permissible range, upper limit (DC)     28.8 V       Power loss     5000000000000000000000000000000000000	maximum permitted backward tilt angle from vertical	45°
Type of supply voltage     24 V DC       Rated value (DC)     24 V       permissible range, lower limit (DC)     20.4 V       permissible range, upper limit (DC)     28.8 V       Power loss     5000000000000000000000000000000000000	Supply voltage	
permissible range, lower limit (DC)         20.4 V           permissible range, upper limit (DC)         28.8 V           Power loss         13 W           Power loss, max.         60 W           Interfaces         2; USB 2.0 (downstream)           Number of USB interfaces         2; USB 2.0 (downstream)           USB on the rear         Yes; 2x onboard           Video interfaces         -           • analog video signal (VGA)         Yes           • bisplayPort         Yes           • USB         Yes; USB Type A           Degree and class of protection         -           IP (at the front)         IP65           Standards, approvals, certificates         -           CE mark         Yes           CULus         Yes           RCM (formerly C-TICK)         Yes           KC approval         Yes           EAC (formerly Gost-R)         Yes           FCC         Yes           Arbient temperature during operation         -           • min.         0 °C           • max.         45 °C		24 V DC
permissible range, upper limit (DC)         28.8 V           Power loss         13 W           Power loss, typ.         13 W           Power loss, max.         60 W           Interfaces         2; USB 2.0 (downstream)           USB on the rear         Yes; 2x onboard           Video interfaces         2; USB 2.0 (downstream)           USB on the rear         Yes; 2x onboard           Video interfaces         4           • analog video signal (VGA)         Yes           • DisplayPort         Yes           Touch interfaces         4           • USB         Yes; USB Type A           Degree and class of protection         1165           IP (at the front)         IP65           Standards, approvals, certificates         Yes; UL 61010-1, UL 61010-2-201           CE mark         Yes           cULus         Yes (UL 61010-1, UL 61010-2-201           RCM (formerly C-TICK)         Yes           KC approval         Yes           FCC         Yes           Anbient temperature during operation         Yes           • min.         0 °C           • max.         45 °C	Rated value (DC)	24 V
Power loss       Power loss, typ.     13 W       Power loss, max.     60 W       Interfaces     2: USB 2.0 (downstream)       Number of USB interfaces     2: USB 2.0 (downstream)       USB on the rear     Yes; 2x onboard       Video interfaces     2: USB 2.0 (downstream)       USB on the rear     Yes; 2x onboard       Video interfaces     2: USB 2.0 (downstream)       • analog video signal (VGA)     Yes; 2x onboard       • DisplayPort     Yes       Touch interfaces     7       • USB     Yes; USB Type A       Degree and class of protection     1165       IP (at the front)     1165       Standards, approvals, certificates     2       CE mark     Yes; UL 61010-1, UL 61010-2-201       RCM (formerly C-TICK)     Yes       KC approval     Yes       EAC (formerly Gost-R)     Yes       FCC     Yes       Ambient temperature during operation     0 °C       • min.     0 °C       • max.     45 °C	permissible range, lower limit (DC)	20.4 V
Power loss, typ.       13 W         Power loss, max.       60 W         Interfaces       50 W         Number of USB interfaces       2; USB 2.0 (downstream)         USB on the rear       Yes; 2x onboard         Video interfaces       -         • analog video signal (VGA)       Yes         • DisplayPort       Yes         Touch interfaces       -         • USB       Yes; USB Type A         Degree and class of protection       IP65         IP (at the front)       IP65         Standards, approvals, certificates       -         CE mark       Yes         oULus       Yes; UL 61010-1, UL 61010-2:201         RCM (formerly C-TICK)       Yes         KC approval       Yes         FCC       Yes         Ambient temperature during operation       0 °C         • max.       45 °C         Ambient temperature during storage/transportation       -	permissible range, upper limit (DC)	28.8 V
Power loss, typ.       13 W         Power loss, max.       60 W         Interfaces       50 W         Number of USB interfaces       2; USB 2.0 (downstream)         USB on the rear       Yes; 2x onboard         Video interfaces       -         • analog video signal (VGA)       Yes         • DisplayPort       Yes         Touch interfaces       -         • USB       Yes; USB Type A         Degree and class of protection       IP65         IP (at the front)       IP65         Standards, approvals, certificates       -         CE mark       Yes         oULus       Yes; UL 61010-1, UL 61010-2:201         RCM (formerly C-TICK)       Yes         KC approval       Yes         FCC       Yes         Ambient temperature during operation       0 °C         • max.       45 °C         Ambient temperature during storage/transportation       -	Power loss	
Interfaces         2; USB 2.0 (downstream)           Number of USB interfaces         2; USB 2.0 (downstream)           USB on the rear         Yes; 2x onboard           Video interfaces         ************************************		13 W
Number of USB interfaces       2; USB 2.0 (downstream)         USB on the rear       Yes; 2x onboard         Video interfaces       Yes         • analog video signal (VGA)       Yes         • DisplayPort       Yes         Touch interfaces       Yes; USB Type A         • USB       Yes; USB Type A         Degree and class of protection       IP65         IP (at the front)       IP65         Standards, approvals, certificates       Yes; UL 61010-1, UL 61010-2-201         CE mark       Yes         cULus       Yes; UL 61010-1, UL 61010-2-201         RCM (formerly C-TICK)       Yes         KC approval       Yes         EAC (formerly Gost-R)       Yes         FCC       Yes         Ambient conditions       0 °C         Ambient temperature during operation       0 °C         • max.       45 °C         Ambient temperature during storage/transportation       10 °C	Power loss, max.	60 W
USB on the rear       Yes; 2x onboard         Video interfaces       Yes         • DisplayPort       Yes         Touch interfaces       Yes; USB Type A         • USB       Yes; USB Type A         Degree and class of protection       IP65         IP (at the front)       IP65         Standards, approvals, certificates       Yes; UL 61010-1, UL 61010-2-201         CE mark       Yes; UL 61010-1, UL 61010-2-201         cULus       Yes         RCM (formerly C-TICK)       Yes         KC approval       Yes         EAC (formerly Gost-R)       Yes         FCC       Yes         Ambient conditions       0 °C         Armbient temperature during operation       0 °C         • max.       45 °C	Interfaces	
Video interfaces         • analog video signal (VGA)       Yes         • DisplayPort       Yes         Touch interfaces       Yes; USB Type A         • USB       Yes; USB Type A         Degree and class of protection       IP (at the front)         IP (at the front)       IP65         Standards, approvals, certificates       Yes; UL 61010-1, UL 61010-2-201         CE mark       Yes; UL 61010-1, UL 61010-2-201         RCM (formerly C-TICK)       Yes         KC approval       Yes         EAC (formerly Gost-R)       Yes         FCC       Yes         Ambient temperature during operation       0 °C         • max.       45 °C         Ambient temperature during storage/transportation       10 °C		2; USB 2.0 (downstream)
• analog video signal (VGA)Yes• DisplayPortYesTouch interfacesYes; USB Type A• USBYes; USB Type ADegree and class of protectionIP (at the front)IP65Standards, approvals, certificatesCE markYescULusYes; UL 61010-1, UL 61010-2-201RCM (formerly C-TICK)YesKC approvalYesEAC (formerly Gost-R)YesFCCYesAmbient temperature during operation0 °C• max.45 °CAmbient temperature during storage/transportation	USB on the rear	Yes; 2x onboard
• DisplayPort       Yes         Touch interfaces       Yes; USB Type A         • USB       Yes; USB Type A         Degree and class of protection       IP65         Standards, approvals, certificates       Yes; UL 61010-1, UL 61010-2-201         CE mark       Yes; UL 61010-1, UL 61010-2-201         RCM (formerly C-TICK)       Yes         KC approval       Yes         EAC (formerly Gost-R)       Yes         FCC       Yes         Ambient temperature during operation       0 °C         • max.       45 °C         Ambient temperature during storage/transportation       10 °C	Video interfaces	
Touch interfaces       Yes; USB Type A         • USB       Yes; USB Type A         Degree and class of protection       IP65         Standards, approvals, certificates       Yes         CE mark       Yes         cULus       Yes; UL 61010-1, UL 61010-2-201         RCM (formerly C-TICK)       Yes         KC approval       Yes         EAC (formerly Gost-R)       Yes         FCC       Yes         Ambient temperature during operation       0 °C         • max.       45 °C         Ambient temperature during storage/transportation       10 °C	<ul> <li>analog video signal (VGA)</li> </ul>	Yes
• USB       Yes; USB Type A         Degree and class of protection       IP (at the front)         IP (at the front)       IP65         Standards, approvals, certificates       Yes         CE mark       Yes; UL 61010-1, UL 61010-2-201         cULus       Yes; UL 61010-1, UL 61010-2-201         RCM (formerly C-TICK)       Yes         KC approval       Yes         EAC (formerly Gost-R)       Yes         FCC       Yes         Ambient conditions       Yes         Ambient temperature during operation       0 °C         • max.       45 °C         Ambient temperature during storage/transportation       Storage/transportation	DisplayPort	Yes
Degree and class of protection         IP (at the front)       IP65         Standards, approvals, certificates         CE mark       Yes         cULus       Yes; UL 61010-1, UL 61010-2-201         RCM (formerly C-TICK)       Yes         KC approval       Yes         EAC (formerly Gost-R)       Yes         FCC       Yes         Ambient conditions       Ves         Ambient temperature during operation       0 °C         • max.       45 °C         Ambient temperature during storage/transportation       10 °C	Touch interfaces	
IP (at the front)       IP65         Standards, approvals, certificates          CE mark       Yes         cULus       Yes; UL 61010-1, UL 61010-2-201         RCM (formerly C-TICK)       Yes         KC approval       Yes         EAC (formerly Gost-R)       Yes         FCC       Yes         Ambient conditions       0 °C         • min.       0 °C         • max.       45 °C	• USB	Yes; USB Type A
IP (at the front)       IP65         Standards, approvals, certificates          CE mark       Yes         cULus       Yes; UL 61010-1, UL 61010-2-201         RCM (formerly C-TICK)       Yes         KC approval       Yes         EAC (formerly Gost-R)       Yes         FCC       Yes         Ambient conditions       0 °C         • min.       0 °C         • max.       45 °C	Degree and class of protection	
CE mark       Yes         cULus       Yes; UL 61010-1, UL 61010-2-201         RCM (formerly C-TICK)       Yes         KC approval       Yes         EAC (formerly Gost-R)       Yes         FCC       Yes         Ambient conditions       Yes <ul> <li>Min.</li> <li>max.</li> <li>Ambient temperature during storage/transportation</li> </ul> <ul> <li>°C</li> <li>Ambient temperature during storage/transportation</li> </ul> <ul> <li>°C</li> <li>Ambient temperature during storage/transportation</li> </ul> <ul> <li>°C</li> <li>°C</li> </ul>		IP65
CULusYes; UL 61010-1, UL 61010-2-201RCM (formerly C-TICK)YesKC approvalYesEAC (formerly Gost-R)YesFCCYesAmbient conditionsYes• min.0 °C• max.45 °CAmbient temperature during storage/transportationSC	Standards, approvals, certificates	
RCM (formerly C-TICK)       Yes         KC approval       Yes         EAC (formerly Gost-R)       Yes         FCC       Yes         Ambient conditions         Ambient temperature during operation         • min.       0 °C         • max.       45 °C         Ambient temperature during storage/transportation	CE mark	Yes
KC approval       Yes         EAC (formerly Gost-R)       Yes         FCC       Yes         Ambient conditions       Yes         Ambient temperature during operation       0 °C         • max.       0 °C         Ambient temperature during storage/transportation       45 °C		Yes; UL 61010-1, UL 61010-2-201
EAC (formerly Gost-R)       Yes         FCC       Yes         Ambient conditions       Yes         Ambient temperature during operation       0 °C         • min.       0 °C         • max.       45 °C         Ambient temperature during storage/transportation		
FCC     Yes       Ambient conditions        Ambient temperature during operation     0 °C       • max.     0 °C       • max.     45 °C		
Ambient conditions         Ambient temperature during operation         • min.       0 °C         • max.       45 °C         Ambient temperature during storage/transportation		
Ambient temperature during operation         • min.       0 °C         • max.       45 °C         Ambient temperature during storage/transportation	FCC	Yes
• min.     0 °C       • max.     45 °C       Ambient temperature during storage/transportation	Ambient conditions	
• max. 45 °C Ambient temperature during storage/transportation		
Ambient temperature during storage/transportation	• min.	
		45 °C
• min20 °C		
	• min.	-20 °C

• max.	60 °C
Relative humidity	
<ul> <li>Operation, max.</li> </ul>	85 %
Vibrations	
<ul> <li>Vibration load in operation</li> </ul>	5 m/s <sup>2</sup>
<ul> <li>Vibration load during transport/storage</li> </ul>	10 m/s <sup>2</sup>
Shock testing	
<ul> <li>Shock load during operation</li> </ul>	150 m/s <sup>2</sup>
<ul> <li>Shock load during transport/storage</li> </ul>	150 m/s²
Mechanics/material	
Enclosure material (front)	
Aluminum	Yes
Dimensions	
Width of the housing front	320 mm
	320 mm 226 mm
Width of the housing front	
Width of the housing front Height of housing front	226 mm
Width of the housing front         Height of housing front         Mounting cutout, width         Mounting cutout, height         Weights	226 mm 302 mm
Width of the housing front Height of housing front Mounting cutout, width Mounting cutout, height	226 mm 302 mm