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)	
 Horizontal image resolution 	1 280 Pixel
 Vertical image resolution 	800 Pixel
General features	
 Detachable from computer unit 	5 m
Backlighting	
 Type of backlighting 	LED
 MTBF backlighting (at 25 °C) 	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 <	 Design as touch screen 	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	
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• 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	 analog video signal (VGA) 	Yes
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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	
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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 Min. max. Ambient temperature during storage/transportation °C Ambient temperature during storage/transportation °C Ambient temperature during storage/transportation °C °C 		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	
 Operation, max. 	85 %
Vibrations	
 Vibration load in operation 	5 m/s ²
 Vibration load during transport/storage 	10 m/s ²
Shock testing	
 Shock load during operation 	150 m/s ²
 Shock load during transport/storage 	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