

Technical specifications (continued)

Article number	6AV7863-3AA00-0AA0 SIMATIC Flat Panel 19" Display only	6AV7863-3AB10-0AA0 SIMATIC Flat Panel 19" Display only Ext	6AV7863-3TA00-0AA0 SIMATIC Flat Panel 19" Touch	6AV7863-3TB10-0AA0 SIMATIC Flat Panel 19" Touch Ext
General information				
Product type designation	IFP1900	IFP1900	IFP1900	IFP1900
Short designation	Flat Panel 19" display	Flat Panel 19" display ext.	Flat Panel 19" touch	Flat Panel 19" touch ext.
Display				
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	18.5 in	18.5 in	18.5 in	18.5 in
Screen diagonal [cm]	47 cm	47 cm	47 cm	47 cm
Display width	409.8 mm	409.8 mm	409.8 mm	409.8 mm
Display height	230.4 mm	230.4 mm	230.4 mm	230.4 mm
Viewing angle	170° x 160°	170° x 160°	170° x 160°	170° x 160°
On Screen Display (OSD) configuration	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software
Number of colors	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit
Resolution (pixels)				
• Horizontal image resolution	1 366 Pixel	1 366 Pixel	1 366 Pixel	1 366 Pixel
• Vertical image resolution	768 Pixel	768 Pixel	768 Pixel	768 Pixel
• Pixel size, horizontal	0.3 mm	0.3 mm	0.3 mm	0.3 mm
• Pixel size, vertical	0.3 mm	0.3 mm	0.3 mm	0.3 mm
General features				
• Detachable from computer unit	5 m	30 m	5 m	30 m
• Brightness/contrast	300 cd/m ² / 1 000:1	300 cd/m ² / 1 000:1	300 cd/m ² / 1 000:1	300 cd/m ² / 1 000:1
• non-reflective and tempered mineral glass screen	Yes	Yes		
Backlighting				
• Type of backlighting	LED	LED	LED	LED
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C
• Backlight dimmable	Yes; 0-100 %	Yes; 0-100 %	Yes; 0-100 %	Yes; 0-100 %
Touch operation				
• Design as touch screen			Yes; Analog-resistive	Yes; Analog-resistive
• Monitor keyboard			Yes	Yes
Installation type/mounting				
Built-in unit	Yes; Portrait mode possible	Yes; Portrait mode possible	Yes; Portrait mode possible	Yes; Portrait mode possible
maximum permitted forward tilt angle from vertical	35°	35°	35°	35°
maximum permitted backward tilt angle from vertical	35°	35°	35°	35°
Supply voltage				
Type of supply voltage	DC	AC/DC	DC	AC/DC
Rated value (DC)	24 V	24 V	24 V	24 V
permissible range, lower limit (DC)	19.2 V	19.2 V	19.2 V	19.2 V
permissible range, upper limit (DC)	28.8 V	28.8 V	28.8 V	28.8 V
Rated value (AC)		100 V; Up to 240V, 50/60 Hz		100 V; Up to 240V, 50/60 Hz
permissible range, lower limit (AC)		90 V		90 V
permissible range, upper limit (AC)		264 V		264 V
Power loss				
Power loss, typ.	40 W	40 W	40 W	40 W
Power loss, max.	65 W	65 W	65 W	65 W

PC-based Automation

Industrial PC

Industrial monitors and Thin Clients

SIMATIC Industrial Flat Panel

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Interfaces				
USB on the rear		2		2
Connection for keyboard/mouse		USB		USB
Video interfaces				
• DVI-D	Yes	Yes	Yes	Yes
• DisplayPort	Yes; DisplayPort V1.1	Yes; DisplayPort V1.1	Yes; DisplayPort V1.1	Yes; DisplayPort V1.1
Touch interfaces				
• USB	No	No	Yes	Yes
Degree and class of protection				
IP65 at front	Yes	Yes	Yes	Yes
Enclosure Type 4 at the front	Yes	Yes	Yes	Yes
NEMA4 at the front	No	No	No	No
NEMA4X at the front	No	No	No	No
IP20 rear	Yes	Yes	Yes	Yes
Standards, approvals, certificates				
CE mark	Yes	Yes	Yes	Yes
cULus	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes
Use in hazardous areas				
• FM Class I Division 2	Yes	No	Yes	Yes
Ambient conditions				
Ambient temperature during operation				
• min.	0 °C	0 °C	0 °C	0 °C
• max.	45 °C; Vertical installation (horizontal)	45 °C; Vertical installation (horizontal)	45 °C; Vertical installation (horizontal)	45 °C; Vertical installation (horizontal)
Relative humidity				
• Operation, max.	95 %; no condensation	95 %; no condensation	95 %; no condensation	95 %; no condensation
Vibrations				
• Vibration load in operation	1 gn	1 gn	1 gn	1 gn
• Vibration load during transport/ storage	1 gn	1 gn	1 gn	1 gn
Shock testing				
• Shock load during operation	15 gn	15 gn	15 gn	15 gn
• Shock load during transport/storage	15 gn	15 gn	15 gn	15 gn
Mechanics/material				
Enclosure material (front)				
• Aluminum	Yes	Yes	Yes	Yes
Dimensions				
Width of the housing front	483 mm	483 mm	483 mm	483 mm
Height of housing front	337 mm	337 mm	337 mm	337 mm
Mounting cutout, width	465 mm; Tolerance: +1 mm	465 mm; Tolerance: +1 mm	465 mm; Tolerance: +1 mm	465 mm; Tolerance: +1 mm
Mounting cutout, height	319 mm; Tolerance: +1 mm	319 mm; Tolerance: +1 mm	319 mm; Tolerance: +1 mm	319 mm; Tolerance: +1 mm
Overall depth	62.5 mm	62.5 mm	62.5 mm	62.5 mm
Weights				
Weight without packaging	5.5 kg	5.5 kg	5.5 kg	5.5 kg

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Ordering data	Article No.		Article No.	
SIMATIC IFP1900 Flat Panel 19" display (16:10), DisplayPort/DVI port <u>without touch screen, display only, 1 366 x 768 pixels, for 24 V DC</u> - Standard up to 5 m, incl. DVI cable 1.8 m - Extended version up to 30 m, incl. DVI/USB cable 1.8 m <u>Multi-touch, 1 366 x 768, for 24 V DC</u> - Standard up to 5 m, incl. DVI/USB cable 1.8 m - Standard up to 5 m, marine approval, incl. DVI/USB cable 1.8 m - DisplayPort, Ethernet interface, incl. DVI/USB cable 1.8 m <u>Multi-touch, 1 366 x 768 pixels, for 24 V DC and 100-240 V AC</u> - Extended version up to 30 m, incl. DVI/USB cable 1.8 m - Extended version up to 30 m, marine approval, incl. DVI/USB cable 1.8 m <u>Touch, 1 366 x 768 pixels, for 24 V DC</u> - Standard up to 5 m, incl. DVI cable 1.8 m <u>Touch, 1 366 x 768 pixels, for 24 V DC and 100-240 V AC</u> - Extended version up to 30 m, incl. DVI/USB cable 1.8 m <u>19" Full HD / Extended multi-touch</u> - Extended version up to 30 m, incl. DVI/USB cable 1.8 m - Neutral design	6AV7863-3AA00-0AA0 6AV7863-3AB10-0AA0 6AV7863-3MA00-0AA0 6AV7863-3MA00-0SA0 6AV7863-3MA20-0AA0 6AV7863-3MB10-0AA0 6AV7863-3MB10-0SA0 6AV7863-3TA00-0AA0 6AV7863-3TB10-0AA0 6AV7863-6MA10-1AA0 6AV7863-6MA10-1NA0		SIMATIC IFP2200 Flat Panel 22" display (16:10), DisplayPort/DVI port <u>without touch screen, display only, 1 920 x 1 080 pixels, for 24 V DC</u> - Standard up to 5 m, incl. DVI cable 1.8 m <u>without touch screen, display only, 1 920 x 1 080 pixels, for 24 V DC and 100-240 V AC</u> - Extended version up to 30 m, incl. DVI/USB cable 1.8 m <u>Multi-touch, 1 920 x 1 080 pixels, for 24 V DC</u> - Standard up to 5 m, incl. DVI/USB cable 1.8 m - Standard up to 5 m, marine approval, incl. DVI/USB cable 1.8 m - DisplayPort, Ethernet interface, incl. DVI/USB cable 1.8 m <u>Multi-touch, 1 920 x 1 080 pixels, for 24 V DC and 100-240 V AC</u> - Extended version up to 30 m, incl. DVI/USB cable 1.8 m - Extended version up to 30 m, marine approval, incl. DVI/USB cable 1.8 m <u>Touch, 1 920 x 1 080 pixels, for 24 V DC</u> - Standard up to 5 m, incl. DVI cable 1.8 m <u>Touch, 1 920 x 1 080 pixels, for 24 V DC and 100-240 V AC</u> - Extended version up to 30 m, incl. DVI/USB cable 1.8 m SIMATIC IFP2200 with narrow border <u>Multi-touch, 1 920 x 1 080 pixels, for 24 V DC</u> - Extended version up to 30 m, incl. DVI/USB cable 1.8 m - Extended version up to 30 m, neutral front without logo, incl. DVI/USB cable 1.8 m	6AV7863-4AA00-0AA0 6AV7863-4AB10-0AA0 6AV7863-4MA00-0AA0 6AV7863-4MA00-0SA0 6AV7863-4MA20-0AA0 6AV7863-4MB10-0AA0 6AV7863-4MB10-0SA0 6AV7863-4TA00-0AA0 6AV7863-4TB10-0AA0 6AV7466-8MA10-0AX0 6AV7466-8MA10-0AA0