

SIMATIC IPC 477E 22" Multitouch (1920 x 1080); 4 USB (back), Ethernet (10/100/1000); XEON E3-1505L; 3x Gbit Ethernet (IE/PN); 16 GB with ECC and NVRAM; without RS 232/RS485; 1x PCIe (x4); Windows 10 Enterprise 2019 LTSC (64-bit), MUI (en,de,fr,it,es) for Xeon; CFast 128 GB, (only as option with operating system/SW, if no internal mass storage); 480 GB solid-state drive SATA Without SIMATIC software; 24 V DC industrial power supply

General information	
Product type designation	IPC477E
Display	
Design of display	22" TFT multi-touch
Screen diagonal	21.5 in
Resolution (pixels)	
• Horizontal image resolution	1 920 pixel
• Vertical image resolution	1 080 pixel
Backlighting	
• MTBF backlighting (at 25 °C)	30 000 h
Control elements	
Keyboard	
• Function keys	No
• alphanumeric keyboard	No
Touch operation	
• Design as multi-touch screen	Yes; Projective-capacitive
Installation type/mounting	
Mounting	For horizontal and vertical mounting
Design	Panel PC, built-in unit
central design	Yes
distributed design	No
Mounting in portrait format possible	Yes
Supply voltage	
Type of supply voltage	100/240 V AC (autorange) 50/60 Hz; optional 24 V DC
Rated value (DC)	24 V; PELV / SELV floating
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)
Chipset	Intel C236 / Intel H110
Graphic	
Graphics controller	Intel HD graphics controller
Drives	
Hard disk	2.5" SATA ≥ 320 GB
SSD	Yes; 128 / 240 / 480 GB
Storage	
Type of memory	DDR4-2400 SO-DIMM
Main memory	4 / 8 / 16 GB, ECC optional
Capacity of main memory, max.	16 Gbyte
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time; optional

Hardware configuration		
Slots		
• Number of PCI slots		1; Optional
• Number of compact flash slots		1; CFast
Interfaces		
Number of industrial Ethernet interfaces		3; 3x Ethernet (RJ45)
serial interface		Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS
Video interfaces		
• Graphics interface		2x DisplayPort
Industrial Ethernet		
• Industrial Ethernet interface		
— 100 Mbps		Yes
— 1000 Mbps		Yes
Interrupts/diagnostics/status information		
Bus diagnostics		Yes
Integrated Functions		
Monitoring functions		
• Temperature monitoring		Yes
• Fan		No
• Monitoring function via network		Optional
Degree and class of protection		
IP (at the front)		IP65
IP (rear)		IP20
Standards, approvals, certificates		
CE mark		Yes
CSA approval		Yes
UL approval		Yes
• UL 508		Yes
cULus		Yes
RCM (formerly C-TICK)		Yes
KC approval		Yes
EAC (formerly Gost-R)		Yes
FCC		Yes
Use in hazardous areas		
• ATEX Zone 2		Yes; for inscription on device rating plate
• ATEX Zone 22		Yes; for inscription on device rating plate
• IECEx Zone 2		Yes; for inscription on device rating plate
• IECEx Zone 22		Yes; for inscription on device rating plate
• CCC Ex		Yes; for inscription on device rating plate
• cULus Class I Zone 1		No
• cULus Class I Zone 2, Division 2		Yes; for inscription on device rating plate
• cULus Class II Division 2		Yes; for inscription on device rating plate
• FM Class I Division 2		No
• FM Class II Division 2		No
Marine approval		
• Germanischer Lloyd (GL)		Yes
• American Bureau of Shipping (ABS)		Yes
• Bureau Veritas (BV)		Yes
• Det Norske Veritas (DNV)		Yes
• Korean Register of Shipping (KRS)		Yes
• Lloyds Register of Shipping (LRS)		Yes
• Nippon Kaiji Kyokai (Class NK)		Yes
Ambient conditions		
Ambient temperature during operation		
• min.		0 °C
• max.		45 °C
Ambient temperature during storage/transportation		
• min.		-20 °C

• max.	60 °C
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s ² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s ² (hard disk)
Operating systems	
pre-installed operating system	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10
without operating system	Yes; Optional
pre-installed operating system	
• Windows 7	Yes; Ultimate 64 bit
• Windows 10 Enterprise	Yes; Windows 10 Enterprise 2016 LTSC, 64 bit, MUI
Dimensions	
Width of the housing front	529 mm
Height of housing front	331 mm
Mounting cutout, width	513 mm
Mounting cutout, height	315 mm
mounting depth	76 mm
Weights	
Weight, approx.	7.9 kg
Approvals / Certificates	
General Product Approval	
For use in hazardous locations	

[Miscellaneous](#)



[BIS CRS](#)

[China RoHS](#)



For use in hazardous locations		Maritime application		
Type Examination Certificate				
		IECEX	ABS	DNV
				LRS

Maritime application	Dangerous goods
NK / Nippon Kaiji Kyokai	Dangerous goods information
	Test Summary Report UN 38.3

last modified:

6/10/2026