

*** no longer available *** SIMATIC IPC 477D with TPM, 12" touch display; 4 USB (back), Ethernet (10/100/1000); 24 V DC power supply, (not for China);



General information	
Product type designation	IPC477D
Display	
Design of display	12" TFT touch
Screen diagonal	12 in
Resolution (pixels)	
• Horizontal image resolution	1 280 pixel
• Vertical image resolution	800 pixel
Control elements	
Input device	
• Mouse, at front	No
Keyboard	
• Function keys	No
• alphanumeric keyboard	No
Touch operation	
• Design as touch screen	Yes; analog, resistive
Installation type/mounting	
Design	Box 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
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Power loss	
In full configuration	24 V DC: max. 59 W
Processor	
Processor type	Intel Core i7-3517UE Intel Core i3-3217UE Intel Celeron 827E
Graphic	
Graphics controller	Intel HD graphics controller
Drives	
Optical drives	Optional: DVD±R±RW combi drive; on rear, can be operated from side
Hard disk	2.5" SATA hard disk, at least 320 GB
SSD	Yes; 1x 240 GB SSD, 1x 480 GB SSD
Storage	
Type of memory	DDR3-SDRAM

Main memory	2 / 4 / 8 GB
Capacity of main memory, max.	8 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	
• free slots	1x PCIe (slot with card retainer), 1x slot for CFAST card
• Number of PCI slots	1; Optional
• Number of compact flash slots	2; CFAST
Interfaces	
PROFIBUS/MPI	optionally onboard, isolated, max. 12 Mbps, compatible with CP 5611
Number of PROFINET interfaces	3; 3 ports (IRT, with switch, optional)
USB port	4x USB 3.0 high speed/high current
Connection for keyboard/mouse	USB / USB
serial interface	COM1: 1x RS 232, COM2 (optional): 1x RS 232
Video interfaces	
• Graphics interface	DVI VGA / DVI integrated
Industrial Ethernet	
• Industrial Ethernet interface	onboard, 2x 10 / 100 / 1 000 Mbit, RJ45
Interrupts/diagnostics/status information	
LED status display	Yes
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	± 6 kV contact discharge at the front in accordance with IEC 61000-4-2; ±4 kV, housing contact discharge at the back in accordance with IEC 61000-4-2; ± 8 kV air discharge in accordance with IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV (to IEC 1000-4-4; 1995; burst); ±1 kV (to IEC 1000-4-5; 1995; surge symm); ±2 kV (to IEC 1000-4-5; 1995; surge asymm)
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-4, burst; length > 30 m; ±2 kV acc. to IEC 61000-4-5, surge; length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
• UL 508	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
FCC	Yes

EMC	CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A		
Use in hazardous areas			
• ATEX Zone 2	Yes; Optional		
• ATEX Zone 22	Yes; Optional		
• IECEx Zone 2	Yes; Optional		
• cULus Class I Zone 2, Division 2	Yes		
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.	50 °C		
Ambient temperature during storage/transportation			
• min.	-20 °C		
• max.	60 °C		
Relative humidity			
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)		
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/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (hard disk)		
Shock testing			
• Shock load during operation	IEC 60068-2-27; 150 m/s², 11 ms (without hard disk); 50 m/s², 30 ms (with hard disk)		
Operating systems			
pre-installed operating system	Windows 7 Ultimate 32-bit / 64-bit, MUI; Windows Embedded Standard 7 P, 32-bit, MUI		
without operating system	Yes		
pre-installed operating system			
• Windows 7	Yes; Ultimate 32 bit or 64 bit		
Software			
SIMATIC Software	Optionally with pre-installed software bundle SIMATIC WinCC RT Advanced / WinAC RTX		
Dimensions			
Width of the housing front	330 mm		
Height of housing front	241 mm		
Mounting cutout, width	310 mm		
Mounting cutout, height	221 mm		
mounting depth	76 mm		
Weights			
Weight, approx.	3 200 g		
Classifications			
		Version	Classification
	eClass	14	19-20-01-03
	eClass	12	19-20-01-03
	eClass	9.1	19-20-01-03
	eClass	9	19-20-01-03
	eClass	8	27-24-23-01
	eClass	7.1	27-24-23-01
	eClass	6	27-24-23-01
	ETIM	10	EC001414
	ETIM	9	EC001414

ETIM	8	EC001414
ETIM	7	EC001414
IDEA	4	6607
UNSPSC	15	43-21-15-06

Approvals / Certificates

General Product Approval



[Manufacturer Declaration](#)[Miscellaneous](#)

[China RoHS](#)

General Product Approval

Maritime application





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