

*** no longer available *** SIMATIC IPC 477D with TPM, 15" Touch/Key display; 4 USB (back)+1 USB (front), Ethernet (10/100/1000); 24 V DC power supply, (not for China);



General information	
Product type designation	IPC477D
Display	
Design of display	15" TFT touch
Screen diagonal	15 in
Resolution (pixels)	
• Horizontal image resolution	1 280 pixel
• Vertical image resolution	800 pixel
Backlighting	
• MTBF backlighting (at 25 °C)	50 000 h
Control elements	
Input device	
• Mouse, at front	Front USB 2.0 (500mA)
Keyboard	
• Function keys	Yes
— Number of function keys with LEDs	36
• alphanumeric keyboard	Yes
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. 56 W, PCIe APGB additionally 5 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	483 mm		
Height of housing front	310 mm		
Mounting cutout, width	450 mm		
Mounting cutout, height	290 mm		
mounting depth	76 mm		
• additional mounting depth (optical drive)	26 mm		
Weights			
Weight, approx.	5.7 kg		
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

Miscellaneous


EG-Konf.



[Manufacturer Declaration](#)



[China RoHS](#)

General Product Approval

Maritime application


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