

SIMATIC IPC 477D, 15" Touch/Key display; 4 USB (back)+1 USB (front), Ethernet (10/100/1000) Core I3-3217UE; 2x Gbit Ethernet (IE/PN); PROFIBUS DP 12; 8 GB; 1x RS232 and 1x PCIE; Windows 7 Ultimate, 32-bit; Replaceable without drive; 320 GB HDD SATA; DVD; Without SIMATIC software; AC 110/230V industrial power supply unit with NAMUR; Power supply cable for USA

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 fonts	
• 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	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
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Mains buffering	
• Mains/voltage failure stored energy time	10 ms

Power loss		
In full configuration		24 V DC: max. 56 W, PCIe APGB additionally 5 W
Processor		
Processor type		Celeron 827E (1C/1T, 1.40 GHz, 1.5 MB Cache); Core i3-3217UE (2C/4T, 1.60 GHz, 3 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache, iAMT)
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
Memory		
Type of memory		DDR3-SDRAM
Main memory		2 / 4 / 8 GB; ECC optional
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		
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
Interrupts/diagnostics/status information		
Bus diagnostics		Yes
Integrated Functions		
Monitoring functions		
• Temperature monitoring		Yes
• Watchdog		Yes
• Status LEDs		Yes

- Fan
- Monitoring function via network

No
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
 - Interference immunity on signal cables >30m
 - Interference immunity on signal cables < 30m
- ±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)
±2 kV acc. to IEC 61000-4-4, burst; length > 30 m; ±2 kV acc. to IEC 61000-4-5, surge; length > 30 m
±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
 - symmetric interference
- ±2 kV acc. to IEC 61000-4-5, surge asymmetric
±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; CE marking / EC Declaration of Conformity
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
 - ATEX Zone 22
- Yes; Optional
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	
• Ambient temperature during operation	0 °C to +45 °C with full configuration
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/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)
Shock testing	
• Shock load during operation	IEC 60068-2-27; 150 m/s ² , 11 ms (without hard disk); 50 m/s ² , 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; Optional
pre-installed operating system	
• Windows 7	Yes; Ultimate 32 bit or 64 bit
Dimensions	
Width of the housing front	483 mm
Height of housing front	310 mm
Mounting cutout, width	450 mm
Mounting cutout, height	290 mm
Overall depth	76 mm
• additional mounting depth (optical drive)	26 mm
Weights	
Weight, approx.	5.7 kg

last modified:

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