

SIMATIC IPC 477D with TPM, 15" touch display; 4 USB (back) +1 USB (front), Ethernet (10/100/1000); 24 V DC power supply, (not for China); Core i7-3517UE; 2x Gbit Ethernet (IE/PN); 8 GB; 1x RS232 and 1x PCIE; Windows 7 Ultimate 64-bit, Replaceable without drive; SSD 240 GB Standard (MLC); Without SIMATIC software;

General information

Product type designation	IPC477D with TPM
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Display

Design of display	15" TFT touch
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Screen diagonal	15 in
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Resolution (pixels)

- | | |
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| <ul style="list-style-type: none"> • Horizontal image resolution • Vertical image resolution | <p>1 280 Pixel</p> <p>800 Pixel</p> |
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Control elements

Input device

- | | |
|---|-----------------------|
| <ul style="list-style-type: none"> • Mouse, at front | Front USB 2.0 (500mA) |
|---|-----------------------|

Keyboard fonts

- | | |
|--|---------------------|
| <ul style="list-style-type: none"> • Function keys • alphanumeric keyboard | <p>No</p> <p>No</p> |
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Touch operation

- | | |
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| <ul style="list-style-type: none"> • Design as touch screen | Yes; analog, resistive |
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Installation type/mounting

Design	Box PC, built-in unit
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central design	Yes
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distributed design	No
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Mounting in portrait format possible	Yes
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Supply voltage

Type of supply voltage	100/240 V AC (autorange) 50/60 Hz; optional 24 V DC
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Line frequency

- | | |
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| <ul style="list-style-type: none"> • Rated value 50 Hz • Rated value 60 Hz | <p>Yes</p> <p>Yes</p> |
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Power loss

In full configuration	24 V DC: max. 68 W, PCIe PCB additionally 5 W
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Processor

Processor type	Intel Core i7-3517UE Intel Core i3-3217UE Intel Celeron 827E
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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
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	
<ul style="list-style-type: none"> • free slots • Number of PCI slots • Number of compact flash slots 	1x PCIe (slot with card retainer), 1x slot for CFAST card 1; Optional 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	
<ul style="list-style-type: none"> • Graphics interface 	DVI VGA / DVI integrated
Industrial Ethernet	
<ul style="list-style-type: none"> • Industrial Ethernet interface 	Onboard, 2x 10 / 100 / 1000 Mbit, RJ45
Integrated Functions	
Monitoring functions	
<ul style="list-style-type: none"> • Temperature monitoring • Watchdog • Status LEDs • Monitoring function via network 	Yes Yes Yes Optional
EMC	
Interference immunity against discharge of static electricity	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • 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)
<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • asymmetric interference 	±2 kV acc. to IEC 61000-4-5, surge asymmetric
<ul style="list-style-type: none"> • symmetric interference 	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
<ul style="list-style-type: none"> • Interference immunity to magnetic fields at 50 Hz 	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
<ul style="list-style-type: none"> • 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 style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • ATEX Zone 2 	Yes; Optional
<ul style="list-style-type: none"> • ATEX Zone 22 	Yes; Optional
<ul style="list-style-type: none"> • IECEx Zone 2 	Yes; Optional
<ul style="list-style-type: none"> • cULus Class I Zone 2, Division 2 	Yes
Marine approval	
<ul style="list-style-type: none"> • Germanischer Lloyd (GL) 	Yes
<ul style="list-style-type: none"> • American Bureau of Shipping (ABS) 	Yes
<ul style="list-style-type: none"> • Bureau Veritas (BV) 	Yes
<ul style="list-style-type: none"> • Det Norske Veritas (DNV) 	Yes
<ul style="list-style-type: none"> • Korean Register of Shipping (KRS) 	Yes

- Lloyds Register of Shipping (LRS)
- Nippon Kaiji Kyokai (Class NK)

Yes

Yes

Ambient conditions

Ambient temperature during operation

- Ambient temperature during operation 0 °C to +50 °C with full configuration

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/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

Dimensions

Overall depth

- additional mounting depth (optical drive) 26 mm

Operator control unit (W x H) in mm

- Operator panel width 415 mm
- Operator panel height 310 mm

Mounting dimensions in centralized configuration (W x H x D) in mm

- Width 395 mm
- Height 290 mm
- Depth 76 mm

Mounting cutout/device depth (W x H x T)

395 mm x 290 mm / 82 mm device depth

Weights

Panel PC in central design, approx. 4 920 g

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