

SIMATIC IPC 477E 19" Touch (1366 x 768); with front USB; 4 USB (back), Ethernet (10/100/1000);

General information

Product type designation	IPC477E
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Display

Design of display	19" TFT touch
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Screen diagonal	18.5 in
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Resolution (pixels)

- | | |
|-------------------------------|-------------|
| • Horizontal image resolution | 1 366 Pixel |
| • Vertical image resolution | 768 Pixel |

Backlighting

- | | |
|--------------------------------|----------|
| • MTBF backlighting (at 25 °C) | 50 000 h |
|--------------------------------|----------|

Control elements

Input device

- | | |
|-------------------|----|
| • Mouse, at front | No |
|-------------------|----|

Keyboard fonts

- | | |
|-------------------------|----|
| • Function keys | No |
| • alphanumeric keyboard | No |

Touch operation

- | | |
|--------------------------|------------------------|
| • Design as touch screen | Yes; analog, resistive |
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Installation type/mounting

Design	Panel 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

- | | |
|---------------------|-----|
| • Rated value 50 Hz | Yes |
| • Rated value 60 Hz | Yes |

Power loss

In full configuration	24 V DC: max. 65 W, PCIe APGB additionally 5 W
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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)
Graphic	
Graphics controller	Intel HD graphics controller
Drives	
Optical drives	possible as external drive via USB
Diskette drive	No
Hard disk	2.5" SATA hard disk, at least 320 GB
SSD	Yes; 1x 80 GB, 1x 240 GB SSD, 1x 480 GB SSD
Memory	
Type of memory	DDR4 SO-DIMM
Main memory	4 GB to 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	
<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 1; CFast
Interfaces	
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)
USB port	4x USB 3.0
Connection for keyboard/mouse	USB / USB
serial interface	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS
Video interfaces	
<ul style="list-style-type: none"> • Graphics interface 	2x DisplayPort
Industrial Ethernet	
<ul style="list-style-type: none"> • Industrial Ethernet interface <ul style="list-style-type: none"> — 1000 Mbps 	3x Ethernet (RJ45) Yes
Integrated Functions	
Monitoring functions	
<ul style="list-style-type: none"> • Watchdog 	Yes
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
CSA approval	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

Ambient conditions

Ambient temperature during operation	
• Ambient temperature during operation	0 to +45 °C
• min.	0 °C
• max.	45 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Relative humidity	
• Relative humidity	5% - 80% at 25 °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)
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

Operating system	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10
pre-installed operating system	Yes
without operating system	Yes
pre-installed operating system	
• Windows 7	Yes; Ultimate 64 bit
• Windows 10 IoT Enterprise	Yes; Windows 10 IoT Enterprise LTSP 2016 (64-bit) MUI

Software

SIMATIC Software	Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle
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Dimensions

Operator control unit (W x H) in mm	
• Operator panel width	483 mm
• Operator panel height	337 mm

Install. dimensions, centralized design (W x H x D without optical drive) in mm	
• Width	464 mm
• Height	318 mm
• Depth	76 mm
Mounting cutout/device depth (W x H x T)	465 mm x 319 mm / 76 mm

Weights	
Panel PC in central design, approx.	8.4 kg

Other	
Warranty period	36 mo; Warranty period
last modified:	12/28/2017