

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

### General information

Product type designation IPC477E

### Display

Design of display 19" TFT touch

Screen diagonal 18.5 in

#### 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

### 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

### Power loss

In full configuration 24 V DC: max. 65 W, PCIe APGB additionally 5 W

### 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)
<b>Graphic</b>	
Graphics controller	Intel HD graphics controller
<b>Drives</b>	
Optical drives	possible as external drive via USB
Hard disk	2.5" SATA hard disk, at least 320 GB
SSD	Yes; 1x 80 GB, 1x 240 GB SSD, 1x 480 GB SSD
<b>Memory</b>	
Type of memory	DDR4 SO-DIMM
Main memory	4 GB to 16 GB, ECC optional
Capacity of main memory, max.	16 Gbyte
<b>Data areas and their retentivity</b>	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time; optional
<b>Hardware configuration</b>	
<b>Slots</b>	
<ul style="list-style-type: none"> <li>• free slots</li> <li>• Number of PCI slots</li> <li>• Number of compact flash slots</li> </ul>	1x PCIe (slot with card retainer), 1x slot for CFAST card 1; Optional 1; CFAST
<b>Interfaces</b>	
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
<b>Video interfaces</b>	
<ul style="list-style-type: none"> <li>• Graphics interface</li> </ul>	2x DisplayPort
<b>Industrial Ethernet</b>	
<ul style="list-style-type: none"> <li>• Industrial Ethernet interface — 1000 Mbps</li> </ul>	3x Ethernet (RJ45) Yes
<b>Integrated Functions</b>	
<b>Monitoring functions</b>	
<ul style="list-style-type: none"> <li>• Watchdog</li> </ul>	Yes
<b>Degree and class of protection</b>	
IP (at the front)	IP65
IP (rear)	IP20
<b>Standards, approvals, certificates</b>	
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
<b>Use in hazardous areas</b>	
• ATEX Zone 2	Yes
• IECEx Zone 2	Yes
• cULus Class I Zone 2, Division 2	Yes
<b>Marine approval</b>	
• Germanischer Lloyd (GL)	Yes
• American Bureau of Shipping (ABS)	Yes
• Det Norske Veritas (DNV)	Yes
• Korean Register of Shipping (KRS)	Yes
• Lloyds Register of Shipping (LRS)	Yes
<b>Ambient conditions</b>	
<b>Ambient temperature during operation</b>	
• Ambient temperature during operation	0 to +45°C
<b>Ambient temperature during storage/transportation</b>	
• min.	-20 °C
• max.	60 °C
<b>Relative humidity</b>	
• Relative humidity	5% - 80% at 25 °C
<b>Vibrations</b>	
• 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 <sup>2</sup> (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s <sup>2</sup> (hard disk)
<b>Shock testing</b>	
• Shock load during operation	IEC 60068-2-27; 150 m/s <sup>2</sup> , 11 ms (without hard disk); 50 m/s <sup>2</sup> , 30 ms (with hard disk)
<b>Operating systems</b>	
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
<b>pre-installed operating system</b>	
• Windows 7	Yes; Ultimate 64 bit
• Windows 10 IoT Enterprise	Yes; Windows 10 Enterprise LTSC 2016, 64-bit, MUI
<b>Software</b>	

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	
<ul style="list-style-type: none"> <li>• Operator panel width</li> <li>• Operator panel height</li> </ul>	<ul style="list-style-type: none"> <li>483 mm</li> <li>337 mm</li> </ul>
Install. dimensions, centralized design (W x H x D without optical drive) in mm	
<ul style="list-style-type: none"> <li>• Width</li> <li>• Height</li> <li>• Depth</li> </ul>	<ul style="list-style-type: none"> <li>464 mm</li> <li>318 mm</li> <li>76 mm</li> </ul>
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
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### Other

Warranty period	36 mo; Warranty period
<b>last modified:</b>	08/07/2018