

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



Figure similar

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

<b>Touch operation</b>	
<ul style="list-style-type: none"> <li>• Design as touch screen</li> </ul>	Yes; analog, resistive
<b>Installation type/mounting</b>	
Design	Panel PC, built-in unit
central design	Yes
distributed design	No
Mounting in portrait format possible	Yes
<b>Supply voltage</b>	
Type of supply voltage	100/240 V AC (autorange) 50/60 Hz; optional 24 V DC
<b>Line frequency</b>	
<ul style="list-style-type: none"> <li>• Rated value 50 Hz</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Rated value 60 Hz</li> </ul>	Yes
<b>Power loss</b>	
In full configuration	24 V DC: max. 65 W, PCIe APGB additionally 5 W
<b>Processor</b>	
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
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
<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> </ul>	1x PCIe (slot with card retainer), 1x slot for CFAST card
<ul style="list-style-type: none"> <li>• Number of PCI slots</li> </ul>	1; Optional
<ul style="list-style-type: none"> <li>• Number of compact flash slots</li> </ul>	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>	
• Graphics interface	2x DisplayPort
<b>Industrial Ethernet</b>	
• Industrial Ethernet interface	3x Ethernet (RJ45)
— 1000 Mbps	Yes
<b>Integrated Functions</b>	
<b>Monitoring functions</b>	
• Watchdog	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>Ambient conditions</b>	
<b>Ambient temperature during operation</b>	
• Ambient temperature during operation	0 to +45 °C
• min.	0 °C
• max.	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)

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	
<ul style="list-style-type: none"> <li>• Windows 7</li> </ul>	Yes; Ultimate 64 bit
<ul style="list-style-type: none"> <li>• Windows 10 IoT Enterprise</li> </ul>	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
Dimensions	
Operator control unit (W x H) in mm	
<ul style="list-style-type: none"> <li>• Operator panel width</li> </ul>	483 mm
<ul style="list-style-type: none"> <li>• Operator panel height</li> </ul>	337 mm
Install. dimensions, centralized design (W x H x D without optical drive) in mm	
<ul style="list-style-type: none"> <li>• Width</li> </ul>	464 mm
<ul style="list-style-type: none"> <li>• Height</li> </ul>	318 mm
<ul style="list-style-type: none"> <li>• Depth</li> </ul>	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
<b>last modified:</b>	11/28/2017