

\*\*\*No longer available\*\*\* SIMATIC HMI IPC677C (Panel PC), 2x10/100/1000 Mbit/s Ethernet; 4 x USB V2.0, 1x serial (COM1); Watchdog, temperature and fan monitoring; RAID controller onboard

General information	
Product type designation	IPC677C
Installation type/mounting	
Mounting	For horizontal and vertical mounting
Design	Panel PC, built-in unit
maximum permissible installation angle +/-	20°
Supply voltage	
Type of supply voltage	100/240 V AC (autorange); 24 V DC
Line frequency	
<ul style="list-style-type: none"> <li>Rated value 50 Hz</li> <li>Rated value 60 Hz</li> </ul>	Yes Yes
Mains buffering	
<ul style="list-style-type: none"> <li>Mains/voltage failure stored energy time</li> </ul>	20 ms
Processor	
Processor type	Core i7-610E (2C/4T, 2.53 GHz, TB, HT, VT, AMT, 4MB cache); Core i3-330E (2C/4T, 2.13 GHz, HT, VT, 3MB cache); Celeron P4505 (2C/2T, 1.86 GHz, VT, 2MB cache);
Chipset	Intel QM57 Express Chipset
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	3.5" SATA ≥ 250 GB, optional ≥ 500 GB; RAID1 2x 2.5" SATA ≥ 320 GB; all internal drives are vibration-damped
SSD	Yes; ≥ 160 GB optional
Storage	
Type of memory	DDR3-1066 DIMM
Main memory	1 GB to 8 GB DDR3 1066-DIMM, ECC optional
Capacity of main memory, max.	8 Gbyte
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	2 Mbyte; 128 KB can be stored in the buffer time; optional
Hardware configuration	
Slots	
<ul style="list-style-type: none"> <li>free slots</li> <li>Number of PCI slots</li> <li>Number of PCI slots</li> <li>Number of compact flash slots</li> </ul>	2x PCI or 1x PCI & 1x PCIe (x16) (slots with card retainer), 1x slot for CompactFlash Card 2 1 1
Interfaces	
PROFIBUS/MPI	Optionally onboard, isolated, max. 12 Mbps, no plug-in card necessary, CP 5611-A2-compatible
Number of industrial Ethernet interfaces	2; onboard
Number of PROFINET interfaces	3; Optional
USB port	1x at front, 4x at rear, USB 2.0 (500 mA)
Connection for keyboard/mouse	USB / USB
serial interface	COM1: 1x V.24 (RS 232)
parallel interface	optional LPT1
Video interfaces	
<ul style="list-style-type: none"> <li>Graphics interface</li> </ul>	DVI-I usable for additional display unit (VGA via adapter); color depth 32 bit, 8 to 128 MB Shared Memory





<b>Industrial Ethernet</b>	
<ul style="list-style-type: none"> <li>Industrial Ethernet interface</li> <li>— 100 Mbps</li> <li>— 1000 Mbps</li> </ul>	<p>onboard, 2x 10 / 100 / 1 000 Mbit, RJ45</p> <p>Yes</p> <p>Yes</p>
<b>Interrupts/diagnostics/status information</b>	
LED status display	Yes
<b>Integrated Functions</b>	
<b>Monitoring functions</b>	
<ul style="list-style-type: none"> <li>Temperature monitoring</li> <li>Watchdog</li> <li>Fan</li> <li>Monitoring function via network</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Optional</p>
<b>EMC</b>	
<b>Interference immunity against discharge of static electricity</b>	
<ul style="list-style-type: none"> <li>Interference immunity against discharge of static electricity</li> </ul>	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
<b>Interference immunity against high-frequency electromagnetic fields</b>	
<ul style="list-style-type: none"> <li>Interference immunity against high frequency radiation</li> </ul>	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
<b>Interference immunity to cable-borne interference</b>	
<ul style="list-style-type: none"> <li>Interference immunity on supply cables</li> <li>Interference immunity on signal cables &gt;30m</li> <li>Interference immunity on signal cables &lt; 30m</li> </ul>	<p>±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric</p> <p>±2 kV acc. to IEC 61000-4-5, surge, length &gt; 30 m</p> <p>±1 kV acc. to IEC 61000-4-4; burst; length &lt; 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length &gt; 3 m</p>
<b>Interference immunity against voltage surge</b>	
<ul style="list-style-type: none"> <li>asymmetric interference</li> <li>symmetric interference</li> </ul>	<p>±2 kV acc. to IEC 61000-4-5, surge asymmetric</p> <p>±1 kV acc. to IEC 61000-4-5, surge symmetric</p>
<b>Interference immunity to magnetic fields</b>	
<ul style="list-style-type: none"> <li>Interference immunity to magnetic fields at 50 Hz</li> </ul>	100 A/m; to IEC 61000-4-8
<b>Emission of conducted and non-conducted interference</b>	
<ul style="list-style-type: none"> <li>Interference emission via line/AC current cables</li> </ul>	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
<b>Degree and class of protection</b>	
IP degree of protection	IP20
IP (at the front)	IP65 (on front) to EN60529 and NEMA4
IP (rear)	IP20
<b>Standards, approvals, certificates</b>	
CE mark	Yes
UL approval	Yes
<ul style="list-style-type: none"> <li>UL 508</li> </ul>	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
FCC	Yes
EMC	CE, EN 61000-6-4:2007, EN 61000-6-2:2005
<b>Use in hazardous areas</b>	
<ul style="list-style-type: none"> <li>FM Class I Division 2</li> </ul>	No
<b>Marine approval</b>	
<ul style="list-style-type: none"> <li>Germanischer Lloyd (GL)</li> <li>American Bureau of Shipping (ABS)</li> <li>Bureau Veritas (BV)</li> <li>Det Norske Veritas (DNV)</li> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (Class NK)</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
<b>Ambient conditions</b>	
<b>Ambient temperature during operation</b>	
<ul style="list-style-type: none"> <li>min.</li> <li>max.</li> </ul>	<p>5 °C</p> <p>50 °C</p>
<b>Ambient temperature during storage/transportation</b>	


• min.	-20 °C
• max.	60 °C
<b>Relative humidity</b>	
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)
<b>Vibrations</b>	
• Vibration resistance during operation acc. to IEC 60068-2-6	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s <sup>2</sup> (1 g)
<b>Shock testing</b>	
• Shock load during operation	Tested to DIN IEC 60068-2-29: 50 m/s <sup>2</sup> (5 g), 30 ms, 100 shocks
<b>Operating systems</b>	
pre-installed operating system	Windows XP Prof. SP3, MUI; Windows 7 Ultimate 32-bit / 64-bit, MUI; Windows Embedded Standard 2009 English on 8 GB CompactFlash; without operating system
without operating system	Yes
pre-installed operating system	
• Windows XP Professional	Yes
• Windows 7	Yes; Ultimate 32 bit or 64 bit

<b>Software</b>	
SIMATIC Software	Optional in a package with SIMATIC WinCC, WinCC flexible, or WinAC RTX

<b>Classifications</b>			
		<b>Version</b>	<b>Classification</b>
	eClass	14	19-20-01-03
	eClass	12	19-20-01-03
	eClass	9.1	19-20-01-03
	eClass	9	19-20-01-03
	eClass	8	27-24-23-01
	eClass	7.1	27-24-23-01
	eClass	6	27-24-23-01
	ETIM	10	EC001414
	ETIM	9	EC001414
	ETIM	8	EC001414
	ETIM	7	EC001414
	IDEA	4	6607
	UNSPSC	15	43-21-15-06

**Approvals / Certificates**

<b>General Product Approval</b>	<b>EMV</b>	<b>For use in hazardous locations</b>	<b>Maritime application</b>
<a href="#">Miscellaneous</a>		<a href="#">China RoHS</a>	
			

<b>Maritime application</b>	<b>Dangerous goods</b>
	<a href="#">CCS (China Classification Society)</a> <a href="#">Dangerous goods information</a> <a href="#">Test Summary Report UN 38.3</a>

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