

SIMATIC IPC377G (basic panel PC); 12" singletouch (1280 x 800); 2x 10/100/1000 Mbps Ethernet RJ45; 2x DisplayPort graphic; 4x USB 3.1; 2x M.2 extension slot; 24 V DC power supply Atom x6413E (up to 3.9 GHz); 8 GB RAM; 4x USB+2x COM; Windows10 Enterprise 2019 LTSC, 64 bit; MUI (en,de,fr,it,es); 512 GB SSD;

General information	
Product type designation	IPC377G
Installation type/mounting	
Mounting	Panel mount and VESA, horizontal and vertical
Design	Panel PC, built-in unit
Supply voltage	
Type of supply voltage	24 V DC
Mains buffering	
<ul style="list-style-type: none"> <li>Mains/voltage failure stored energy time</li> </ul>	10 ms
Processor	
Processor type	Intel Atom X6413E
Memory	
Type of memory	DDR4
Main memory	4 GB, 8 GB, 16 GB
Capacity of main memory, max.	16 Gbyte
Hardware configuration	
Slots	
<ul style="list-style-type: none"> <li>free slots</li> </ul>	2x M.2
Interfaces	
Number of industrial Ethernet interfaces	2; 2x RJ45 (independent)
Video interfaces	
<ul style="list-style-type: none"> <li>Graphics interface</li> </ul>	2x DisplayPort
Industrial Ethernet	
<ul style="list-style-type: none"> <li>Industrial Ethernet interface                             <ul style="list-style-type: none"> <li>— 100 Mbps</li> <li>— 1000 Mbps</li> </ul> </li> </ul>	2x Ethernet (RJ45) Yes Yes
Protocols	
<ul style="list-style-type: none"> <li>Protocols (Ethernet)                             <ul style="list-style-type: none"> <li>TCP/IP</li> </ul> </li> </ul>	Yes
Integrated Functions	
Monitoring functions	
<ul style="list-style-type: none"> <li>Temperature monitoring</li> <li>Watchdog</li> <li>Fan</li> </ul>	Yes Yes No
EMC	
Interference immunity against discharge of static electricity	
<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
Interference immunity against high-frequency electromagnetic fields	
<ul style="list-style-type: none"> <li>Interference immunity against high frequency radiation</li> </ul>	10 V/m for 80 ... 1 000 MHz, 80 % AM according to IEC 61000-4-3; 3 V/m for 1.4 ... 6 GHz, 80 % AM according to IEC 61000-4-3
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP40
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes

UL approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
BSMI	Yes
Dust protection	Protection against foreign bodies > 1 mm

### Ambient conditions

Ambient temperature during operation	
• min.	0 °C
• max.	50 °C; when installed vertically in horizontal format, vertical inclination maximum 45° or when installed upright in vertical format

Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	70 °C

Relative humidity	
• Operation, max.	85 %

Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	Tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 500 Hz: 9.8 m/s <sup>2</sup>

Shock testing	
• Shock load during operation	tested according to IEC 60068-2-27: 150 m/s <sup>2</sup> , 11 ms; 5 g, 30 ms

### Operating systems

without operating system	Yes
pre-installed operating system	
• Windows 10 Enterprise	Yes

### Approvals / Certificates

#### General Product Approval



[Miscellaneous](#)



General Product Approval	EMV	Test Certificates
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[Confirmation](#)



[Special Test Certificate](#)

Maritime application	other
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[Confirmation](#)

other	Railway	Environment
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