

SIMATIC IPC227G 2x display ports; 3x 10/100/1000 Mbps Ethernet; 4x USB3.0, 2x M.2 expansion slot; 24 V DC industrial power supply Atom X6413E (4-core); 4 GB RAM / with USB flash drive (documentation) without COM; 256 GB Eco SSD; without hardware extension; Windows 10 Enterprise 2019 LTSC, 64-bit; MUI (en,de,fr,it,es); mounting onto standard rail;

Installation type/mounting	
Mounting	DIN rail, wall mounting, portrait mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	24 V DC
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Intel Atom X6211E / X6413E / X6414RE
Chipset	SoC
Graphic	
Graphics controller	Integrated
Drives	
SSD	Yes; 256 Eco
Memory	
Type of memory	DDR4 SO-DIMM
Main memory	2 / 4 / 8 / 16 Gbyte; inband ECC optional
Capacity of main memory, max.	16 Gbyte
Hardware configuration	
Slots	
• free slots	2x M.2
Interfaces	
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)
USB port	4x USB 3.0
Connection for keyboard/mouse	USB / USB
Video interfaces	
• Graphics interface	2x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	3x Ethernet (RJ45)
— 100 Mbps	Yes
— 1000 Mbps	Yes
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	No
• Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±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	
• Interference immunity against high frequency radiation	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
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±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

<ul style="list-style-type: none"> <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 61000-4-5, surge, length &gt; 30 m</p> <p>±1 kV (5 kHz/100 kHz) acc. to IEC 61000-4-4; burst; length &lt; 30 m; ±2 kV (5 kHz/100 kHz) acc. to IEC 61000-4-4; burst; length &gt; 30 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	IP40		
<b>Standards, approvals, certificates</b>			
CE mark	Yes		
cULus	Yes		
RCM (formerly C-TICK)	Yes		
KC approval	Yes		
EAC (formerly Gost-R)	Yes		
FCC	Yes		
EMC	CE, EN 61000-6-4:2007, EN 61000-6-2:2005		
Dust protection	Protection against foreign bodies > 1 mm		
<b>Ambient conditions</b>			
<b>Ambient temperature during operation</b>			
<ul style="list-style-type: none"> <li>min.</li> <li>max.</li> </ul>	<p>0 °C</p> <p>55 °C</p>		
<b>Ambient temperature during storage/transportation</b>			
<ul style="list-style-type: none"> <li>min.</li> <li>max.</li> </ul>	<p>-20 °C</p> <p>60 °C</p>		
<b>Relative humidity</b>			
<ul style="list-style-type: none"> <li>Relative humidity</li> </ul>	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)		
<b>Vibrations</b>			
<ul style="list-style-type: none"> <li>Vibration resistance during operation acc. to IEC 60068-2-6</li> </ul>	tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 200 Hz : 9.8m/s <sup>2</sup> (1 g) (except DIN Rail) 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s <sup>2</sup> (0.5 g) (DIN Rail)		
<b>Shock testing</b>			
<ul style="list-style-type: none"> <li>Shock load during operation</li> </ul>	Tested according to IEC 60068-2-27: 150 m/s <sup>2</sup> , 11 ms		
<b>Operating systems</b>			
pre-installed operating system	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI		
without operating system	Yes; Optional		
<b>pre-installed operating system</b>			
<ul style="list-style-type: none"> <li>Windows 10</li> <li>Windows 10 Enterprise</li> </ul>	<p>Yes; Windows 10 IoT Enterprise 2016 LTSC, 64bit, MUI</p> <p>Yes; Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI</p>		
<b>Dimensions</b>			
Width	191 mm		
Height	100 mm		
Depth	64 mm		
<b>Classifications</b>			
		<b>Version</b>	<b>Classification</b>
	eClass	14	19-20-01-02
	eClass	12	19-20-01-02
	eClass	9.1	19-20-01-02
	eClass	9	19-20-01-02
	eClass	8	19-20-01-02
	eClass	7.1	19-20-01-02
	eClass	6	19-20-01-02
	ETIM	10	EC001413

ETIM	9	EC001413
ETIM	8	EC001413
ETIM	7	EC001413

**Approvals / Certificates**

**General Product Approval**

[Manufacturer Declaration](#)



[Miscellaneous](#)



**General Product Approval** | **Maritime application**



[BIS CRS](#)



[China RoHS](#)



**Maritime application** | **Dangerous goods**



[NK / Nippon Kaiji Kyokai](#)

[CCS \(China Classification Society\)](#)

[KR \(Korean Register of Shipping\)](#)

[Test Summary Report UN 38.3](#)

**Dangerous goods** | **Environment**

[Dangerous goods information](#)



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