

SIMATIC IPC227G 2x display ports; 3x 10/100/1000 Mbps Ethernet; 4x USB3.0; 2x M.2 extension slot; 24 V DC industrial power supply Industrial Edge - SIMATIC Atom X6413E (4-core) with TPM; 16 GB RAM / with USB flash drive (documentation); without COM; 480 GB SSD; without hardware extension; DIN-rail mounting;

| General information  |  |
|--|--|
| Product type designation   | IPC227G  |
| 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  |  |
| <ul style="list-style-type: none"> <li>Mains/voltage failure stored energy time</li> </ul>   | 20 ms  |
| Processor  |  |
| Processor type   | Intel Atom X6413E  |
| Chipset  | SoC  |
| Graphic  |  |
| Graphics controller  | Integrated   |
| Drives   |  |
| SSD  | Yes  |
| Memory   |  |
| Type of memory   | DDR4 SO-DIMM   |
| 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   | 3; 3x Ethernet (RJ45)  |
| USB port   | 4x USB 3.1   |
| Connection for keyboard/mouse  | USB / USB  |
| 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> | 3x Ethernet (RJ45)<br>Yes<br>Yes   |
| Protocols  |  |
| Protocols (Ethernet) <ul style="list-style-type: none"> <li>TCP/IP</li> </ul>  | Yes  |
| Integrated Functions   |  |
| Monitoring functions   |  |
| <ul style="list-style-type: none"> <li>Temperature monitoring</li> <li>Watchdog</li> <li>Fan</li> <li>Monitoring function via network</li> </ul>   | Yes<br>Yes<br>No<br>Optional   |
| 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 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 (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  | SIMATIC Industrial OS  |
| <b>Software</b>   |  |
| SIMATIC Software  | Industrial Edge - SIMATIC  |
| <b>Dimensions</b>   |  |
| Width   | 191 mm   |
| Height  | 100 mm   |
| Depth   | 64 mm  |
| <b>Classifications</b>  |  |

|        | Version | Classification |
|--------|---------|----------------|
| 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

[Miscellaneous](#)

[Manufacturer Declaration](#)

[China RoHS](#)

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