



SIMATIC IPC127E; Atom E3940 (4C/4T), 4 GB RAM; Base version 2x Ethernet RJ45, 2x USB3.0; without operating system 64 GB SSD; without mounting accessories

| Installation type/mounting                 |                                    |
|--------------------------------------------|------------------------------------|
| Design                                     | Box PC, built-in unit              |
| Supply voltage                             |                                    |
| Type of supply voltage                     | 24 V DC                            |
| Mains buffering                            |                                    |
| • Mains/voltage failure stored energy time | 5 ms                               |
| Processor                                  |                                    |
| Processor type                             | Intel Atom E3940, 1.6 GHz, 4 cores |
| Drives                                     |                                    |
| SSD                                        | Yes; 32 GB                         |
| Memory                                     |                                    |
| Type of memory                             | DDR4                               |
| Main memory                                | 4 GB RAM                           |
| Capacity of main memory, max.              | 4 Gbyte                            |
| Hardware configuration                     |                                    |
| Slots                                      |                                    |
| • Number of PCI slots                      | 0                                  |
| Interfaces                                 |                                    |
| Number of industrial Ethernet interfaces   | 2; 2x RJ45 (independent)           |
| Number of PROFINET interfaces              | 2                                  |
| USB port                                   | 2x USB 3.0                         |
| Connection for keyboard/mouse              | USB / USB                          |
| Video interfaces                           |                                    |
| • Graphics interface                       | 1x DisplayPort                     |
| Industrial Ethernet                        |                                    |
| • Industrial Ethernet interface            | 2x Ethernet (RJ45)                 |
| — 100 Mbps                                 | Yes                                |
| — 1000 Mbps                                | Yes                                |
| Protocols                                  |                                    |
| Protocols (Ethernet)                       |                                    |
| • TCP/IP                                   | Yes                                |
| Integrated Functions                       |                                    |
| Monitoring functions                       |                                    |
| • Temperature monitoring                   | Yes                                |
| • Watchdog                                 | Yes                                |
| • Status LEDs                              | 1x power, 3x user                  |
| • Fan                                      | No                                 |

|                                                                     |                                                                                                                                                                           |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EMC</b>                                                          |                                                                                                                                                                           |
| 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, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 GHz to 2.7 GHz, 80 % AM acc. to IEC 61000-4-3; 10 V, 10 kHz to 80 MHz, 80 % AM acc. to IEC 61000-4-6     |
| Interference immunity to cable-borne interference                   |                                                                                                                                                                           |
| • Interference immunity on supply cables                            | ±2 kV (according to IEC 61000-4-4; burst); ±0,5 kV (according to IEC 61000-4-5; surge pulse/line to line); ±1 kV (according to IEC 61000-4-5; surge pulse/line to ground) |
| • Interference immunity on signal cables >30m                       | ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m                                                                                                                         |
| • Interference immunity on signal cables < 30m                      | ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m                                                                        |
| Interference immunity to magnetic fields                            |                                                                                                                                                                           |
| • Interference immunity to magnetic fields at 50 Hz                 | 100 A/m; to IEC 61000-4-8                                                                                                                                                 |
| Emission of conducted and non-conducted interference                |                                                                                                                                                                           |
| • Interference emission via line/AC current cables                  | EN 61000-6-4:2007 +A1:2011 (industrial environments), EN 61000-6-3:2007 +A1:2011 (residential environments), CISPR 22 Class B, FCC Class A                                |
| <b>Standards, approvals, certificates</b>                           |                                                                                                                                                                           |
| CE mark                                                             | Yes                                                                                                                                                                       |
| UL approval                                                         | Yes                                                                                                                                                                       |
| Dust protection                                                     | Protection against foreign bodies > 1 mm                                                                                                                                  |
| <b>Ambient conditions</b>                                           |                                                                                                                                                                           |
| Ambient temperature during operation                                |                                                                                                                                                                           |
| • Ambient temperature during operation                              | 0 °C up to 55 °C                                                                                                                                                          |
| Ambient temperature during storage/transportation                   |                                                                                                                                                                           |
| • min.                                                              | -20 °C                                                                                                                                                                    |
| • max.                                                              | 70 °C                                                                                                                                                                     |
| Relative humidity                                                   |                                                                                                                                                                           |
| • Relative humidity                                                 | 5 ... 85 % at 30 °C, no condensation                                                                                                                                      |
| Vibrations                                                          |                                                                                                                                                                           |
| • Vibration resistance during operation acc. to IEC 60068-2-6       | Tested according to IEC 6068-2-6; 5 Hz to 9 Hz: 3.5 mm, 9 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                                                                                                          |
| <b>Operating systems</b>                                            |                                                                                                                                                                           |
| pre-installed operating system                                      | No                                                                                                                                                                        |
| pre-installed operating system                                      |                                                                                                                                                                           |
| • Windows 10 Enterprise                                             | No                                                                                                                                                                        |
| <b>Dimensions</b>                                                   |                                                                                                                                                                           |
| Width                                                               | 85 mm                                                                                                                                                                     |
| Height                                                              | 85 mm                                                                                                                                                                     |
| Depth                                                               | 41 mm                                                                                                                                                                     |
| <b>last modified:</b>                                               | 3/5/2020                                                                               |