

SIMATIC IPC127E; Atom E3940 (4C/4T), 4 GB RAM; Extended version; 3x Ethernet RJ45, 4x USB3.0; Windows 10 Enterprise LTSC 2016, 64 bit, MUI (en, de, fr, it, es); 128 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	
<ul style="list-style-type: none"> Mains/voltage failure stored energy time 	5 ms
Processor	
Processor type	Intel Atom E3940, 1.6 GHz, 4 cores
Drives	
SSD	Yes; 128 GB
Memory	
Type of memory	DDR4
Main memory	4 GB RAM
Interfaces	
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)
Number of PROFINET interfaces	3
USB port	4x USB 3.0
Connection for keyboard/mouse	USB / USB
Video interfaces	
<ul style="list-style-type: none"> Graphics interface 	1x DisplayPort
Industrial Ethernet	
<ul style="list-style-type: none"> Industrial Ethernet interface <ul style="list-style-type: none"> — 100 Mbps — 1000 Mbps 	3x Ethernet (RJ45) Yes Yes
Protocols	
Protocols (Ethernet)	
<ul style="list-style-type: none"> TCP/IP 	Yes
Integrated Functions	
Monitoring functions	
<ul style="list-style-type: none"> Temperature monitoring Watchdog 	Yes Yes

- Status LEDs
- Fan

1x power, 3x user

No

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 discharge of static electricity acc. to IEC 61000-4-2
 - Test voltage at air discharge 8 kV
 - Test voltage at contact discharge 6 kV

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

Standards, approvals, certificates

Approval	CE, UL
CE mark	Yes
UL approval	Yes
Dust protection	Protection against foreign bodies > 1 mm

Ambient conditions

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/s²

Shock testing

- Shock load during operation

Tested according to IEC 60068-2-27: 150 m/s², 11 ms

Operating systems

Operating system

Windows 10 Enterprise 2016 LTSC, 64 bit, MUI

pre-installed operating system

Yes

pre-installed operating system

- Windows 10 Enterprise

Yes; Windows 10 Enterprise 2016 LTSC, 64 bit, MUI

Dimensions

Width

85 mm

Height

104 mm

Depth

41 mm

last modified:

05/29/2019