

SIMATIC IPC377E (Basicpanel PC) 12" touch (1280 x 800); Celeron N3160 (4C/4T); 4 GB RAM; 256 GB SSD; 1x display port graphic; 1x VGA port graphic; 2x 10/100/1000 Mbit/s Ethernet RJ45; 2x USB3.0, 2x USB2.0; 4x serial ports (COM); 1x mPCIe / 1x mSATA; Windows 10 Enterprise 2016 LTSB, 64 bit, MUI (en,de,fr,it,es); 24 V DC power supply; installation, VESA mounting



Figure similar

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	
• Mains/voltage failure stored energy time	10 ms
Processor	
Processor type	Intel Celeron N3160
Drives	
Hard disk	500 GB HDD
Memory	
Type of memory	DDR3L
Main memory	4 GB (pre-installed)
Capacity of main memory, max.	8 Gbyte

Hardware configuration	
Slots	
<ul style="list-style-type: none"> • free slots 	1x mPCIe (half-size), 1x mSATA (full-size)
<ul style="list-style-type: none"> • Number of PCI slots 	0
Interfaces	
Number of industrial Ethernet interfaces	2; 2x RJ45 (independent)
USB port	2x USB 2.0, 2x USB 3.0 (high current)
Video interfaces	
<ul style="list-style-type: none"> • Graphics interface 	1x DisplayPort, 1x VGA
Industrial Ethernet	
<ul style="list-style-type: none"> • Industrial Ethernet interface 	2x Ethernet (RJ45)
<ul style="list-style-type: none"> — 100 Mbps 	Yes
<ul style="list-style-type: none"> — 1000 Mbps 	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 	Yes
<ul style="list-style-type: none"> • Watchdog 	Yes
<ul style="list-style-type: none"> • Status LEDs 	POWER, HDD
<ul style="list-style-type: none"> • Fan 	No
EMC	
Interference immunity against discharge of static electricity	
<ul style="list-style-type: none"> • Interference immunity against discharge of static electricity 	±6 kV contact; ±8 kV air (to IEC 1000-4-2; ESD)
Interference immunity against high-frequency electromagnetic fields	
<ul style="list-style-type: none"> • Interference immunity against high frequency radiation 	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
Interference immunity to cable-borne interference	
<ul style="list-style-type: none"> • Interference immunity on supply cables 	±2 kV (according to IEC 61000-4-4, burst); ±1 kV (according to IEC 61000-4-5, surge pulse/line to line); ±2 kV (according to IEC 61000-4-5, surge pulse/line to ground)
<ul style="list-style-type: none"> • Interference immunity on signal cables >30m 	±2 kV acc. to IEC 61000-4-4, burst; ±2 kV acc. to IEC 61000-4-5, surge
<ul style="list-style-type: none"> • Interference immunity on signal cables < 30m 	±1 kV acc. to IEC 61000-4-4, Burst
Interference immunity against voltage surge	
<ul style="list-style-type: none"> • asymmetric interference 	±2 kV acc. to IEC 61000-4-5, surge asymmetric
<ul style="list-style-type: none"> • symmetric interference 	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	

- Interference immunity to magnetic fields at 50 Hz 100 A/m; to IEC 61000-4-8

Degree and class of protection

IP (at the front)	IP65
IP (rear)	IP40

Standards, approvals, certificates

CE mark	Yes
UL approval	Yes
cULus	Yes
FCC	Yes
Dust protection	Protection against foreign bodies > 1 mm

Ambient conditions

Ambient temperature during operation

- Ambient temperature during operation 0 to +45°C

Ambient temperature during storage/transportation

- min. -20 °C
- max. 60 °C

Relative humidity

- Relative humidity 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)

Vibrations

- Vibration resistance during operation acc. to IEC 60068-2-6 tested according to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm; 58 Hz to 500 Hz 9.8 m/s² (1 g)

Shock testing

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

Operating systems

pre-installed operating system Windows 10 Enterprise 2016 LTSB, 64 bit, MUI

pre-installed operating system

- Windows 10 Enterprise Yes; Windows 10 IoT Enterprise 2016 LTSB, 64bit, MUI

Dimensions

Width	320 mm
Height	225.6 mm
Depth	95.2 mm

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