

SIMATIC IPC627D (BOX PC), HD GRAPHIC ONBOARD, 2 X GIGABIT ETHERNET (IE/PN) 4 X USB V3.0; 1 X SERIELL (COM1); RAID-CONTROLLER ON BOARD; WATCHDOG, TEMP.-/FAN-MONITORING;



Figure similar

Installation type/mounting	
Mounting	Wall mounting, portrait mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	100/240 V AC (autorange); 24 V DC
Line frequency	
<ul style="list-style-type: none"> Rated value 50 Hz 	Yes
<ul style="list-style-type: none"> Rated value 60 Hz 	Yes
Mains buffering	
<ul style="list-style-type: none"> Mains/voltage failure stored energy time 	20 ms
Processor	
Processor type	Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB Cache, AMT)
Chipset	Intel DH82C226 PCH
Graphic	

Graphics controller	Intel HD graphics controller P4600 GT2 (Xeon, Core i3); Intel HD graphics controller (Celeron)
Drives	
Optical drives	DVD±R±RW combi-drive, optional
Hard disk	3.5" SATA ≥ 250 GB, optional ≥ 500 GB; RAID1 2x 2.5" SATA ≥ 320 GB; all internal drives are vibration-damped
SSD	Yes; ≥ 240 GB optional
Memory	
Type of memory	DDR3 1600 DIMM
Main memory	2 / 4 / 8 / 16 GB; ECC optional
<ul style="list-style-type: none"> Capacity of main memory, max. 	16 Gbyte
Data areas and their retentivity	
retentive data area in total (incl. times, counters, flags), max.	2 Mbyte; 128 KB can be stored in the buffer time; optional
Hardware configuration	
Slots	
<ul style="list-style-type: none"> free slots 	2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); with card retainer
<ul style="list-style-type: none"> Number of PCI slots 	2; Optional
<ul style="list-style-type: none"> Number of PCIe slots 	2; Optional
Interfaces	
PROFIBUS/MPI	Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622
USB port	4x USB 3.0
Connection for keyboard/mouse	USB / USB
serial interface	1x COM1 (RS 232), optional: 1x COM2 (RS 232)
parallel interface	optional LPT1
Video interfaces	
<ul style="list-style-type: none"> Graphics interface 	1x DisplayPort and 1x DVI-I; 1x VGA via adapter cable (optional)
Industrial Ethernet	
<ul style="list-style-type: none"> Industrial Ethernet interface 	Onboard, 2x 10 / 100 / 1000 Mbit, RJ45
<ul style="list-style-type: none"> — 100 Mbps 	Yes
<ul style="list-style-type: none"> — 1000 Mbps 	Yes
Interrupts/diagnostics/status information	
Bus diagnostics	Yes
Integrated Functions	
Monitoring functions	
<ul style="list-style-type: none"> Temperature 	Yes
<ul style="list-style-type: none"> Watchdog 	Yes
<ul style="list-style-type: none"> Status LEDs 	Yes

- Fan Yes
- 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 - 1000 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
• 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 against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• 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
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Degree and class of protection	
IP (at the front)	IP20
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
• UL 508	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
FCC	Yes
EMC	CE, EN 61000-6-3:2007 +A1:2011, EN 61000-6-2:2005
• EN 61000-6-2	Yes
Marine approval	
• Germanischer Lloyd (GL)	Yes
• American Bureau of Shipping (ABS)	Yes
• Bureau Veritas (BV)	Yes

- Det Norske Veritas (DNV) Yes
- Lloyds Register of Shipping (LRS) Yes
- Nippon Kaiji Kyokai (Class NK) Yes

Ambient conditions

Ambient temperature during operation

- Ambient temperature during operation +5 °C up to 55 °C
- min. 5 °C
- max. 55 °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 80% at 25 °C (no condensation), Storage: 5% to 95% at 25 °C (no condensation)

Vibrations

- Vibration load in operation 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 (1g)

Shock testing

- Shock load during operation Tested to DIN IEC 60068-2-29: 50 m/s² (5 g), 30 ms, 100 shocks

Operating systems

- | | |
|--------------------------------|---|
| Operating system | Windows 7 Ultimate 32-bit / 64-bit, MUI; Windows Embedded Standard 7 P, 32-bit, MUI |
| pre-installed operating system | Yes |
| without operating system | Yes |
| pre-installed operating system | |
| • Windows 7 | Yes; Ultimate 32 bits or 64 bits |

Software

- | | |
|------------------|--|
| SIMATIC Software | Optional package with SIMATIC WinCC or WinAC RTX |
|------------------|--|

Dimensions

- | | |
|--------|-------------------------------|
| Width | 312 mm |
| Height | 81 mm; with DVD drive: 105 mm |
| Depth | 301 mm; incl. mounting rail |

last modified: 11/11/2016