

## SIMATIC IPC347D



The SIMATIC IPC347D is a rugged industrial PC in 19" rack design (4 U).

It offers:

- Optimized price
- High performance
- Intel Core i technology

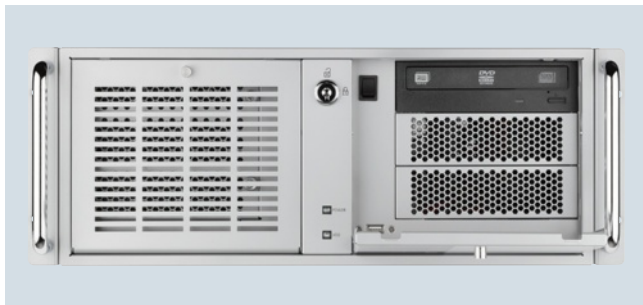
### Basic design

- All-metal 19" enclosure for flush mounting (4 U) for electromagnetic compatibility and mechanical ruggedness; painted on the front
- Prepared for mounting on telescopic rails
- Horizontal installation is possible
- Lockable front flap for authorized access to front swap media, operator controls (Reset, Power), USB interfaces, dust filter and front fan
- Card retainer for PC modules for safe transport (vibration and shock)
- Dust protection through pressurized cooling via filter
- 4 slots for installing drives
  - Front: 3 x 5.25"
  - Internal: 1 x 3.5"
- On-board Intel HD graphics / Intel HD Graphics 2500 integrated in the processor, up to 1 920 x 1 200 pixels, 60 Hz, 32-bit colors
- Interfaces:
  - 2 x Gbit Ethernet (RJ45)
  - 6 x USB 2.0: 4 x at the rear, 2 x at the front
  - 1 x DVI-D, 1 x VGA, 2 x COM, 2 x PS/2
  - Audio: Line In/Out, Mic
- 7 spare slots for expansions (all long):
  - 4 x PCI
  - 1 x PCI-Express x16
  - 1 x PCI-Express x8 (1 lane)
  - 1 x PCI-Express x1
- Power supply:
  - AC (100 ... 240 V, 50 ... 60 Hz)

## Design versions

The IPC347D is only offered ex-stock in 4 fixed configurations:

- **Configuration 1**
  - Chipset: H61
  - Processor: Intel Pentium Dual Core G2010
  - RAM: 2 GB
  - HDD: 500 GB
  - ODD: DVD-ROM
  - Operating system: -
- **Configuration 2**
  - Chipset: H61
  - Processor: Intel Pentium Dual Core G2010
  - RAM: 2 GB
  - HDD: 500 GB
  - ODD: DVD-ROM
  - Operating system: -
- **Configuration 3**
  - Chipset: H61
  - Processor: Intel Core i5-3340S
  - RAM: 4 GB
  - HDD: 500 GB
  - ODD: DVD±RW
  - Operating system: -
- **Configuration 4**
  - Chipset: H61
  - Processor: Intel Core i5-3340S
  - RAM: 4 GB
  - HDD: 500 GB
  - ODD: DVD±RW
  - Operating system: Windows 7 Ultimate, 64 bit, MUI, SP1



IPC347D front view open



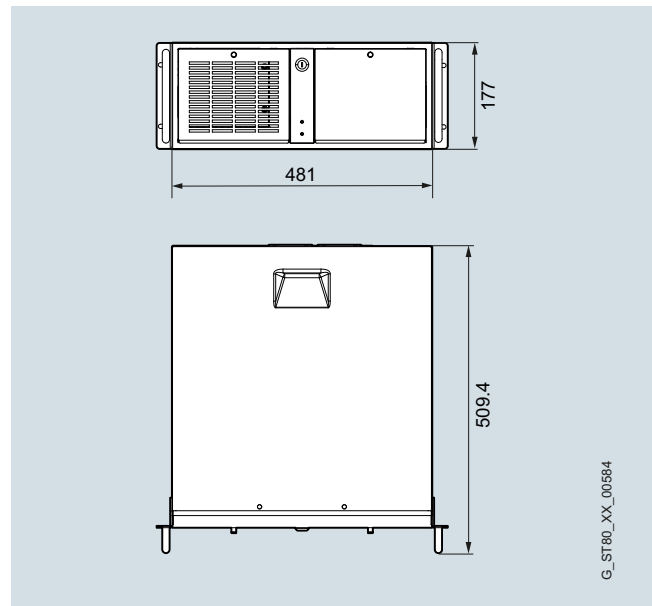
IPC347D interfaces

## Technical specifications

SIMATIC Rack PC	SIMATIC IPC347D
<b>General features</b>	
Design	19" rack, 4 U, painted on the front
Processor	<ul style="list-style-type: none"> <li>• Intel Core i5-3340S (4C/4T, 2.8 (3.3) GHz, 6 MB Cache, Turbo Boost 2.0, EM64T, VT-x/-d)</li> <li>• Intel Pentium Dual Core G2010 (2C/2T, 2.8 GHz, 3 MB Cache, EM64T, VT)</li> </ul>
Chipset	• Intel H61
Main memory	<ul style="list-style-type: none"> <li>• from 2 GB and 4 GB DDR3 1600 SDRAM</li> <li>• Dual Channel support</li> <li>• 2 DIMM base</li> <li>• expandable up to 16 GB<sup>1)</sup></li> </ul>
Spare slots for expansions (all long)	<ul style="list-style-type: none"> <li>• 4 x PCI</li> <li>• 1 x PCI-Express x16</li> <li>• 1 x PCI-Express x8 (1 lane)</li> <li>• 1 x PCI-Express x1</li> </ul>
Graphics	Onboard Intel HD graphics / Intel HD 2500 graphics integrated into the processor; Shared Video Memory up to 1.7 GB; up to 1 920 x 1 200 pixels at 60 Hz image refresh rate and 32-bit colors
Operating systems	<ul style="list-style-type: none"> <li>• Without</li> </ul> Preinstalled and activated (supplied on restore DVD): <ul style="list-style-type: none"> <li>• Windows 7 Ultimate MUI (64-bit)</li> </ul> MUI (Multilanguage User Interface, 5 languages): English, German, French, Italian, Spanish
Power supply	• 100 ... 240 V AC, 50 ... 60 Hz, with bridging of short-term power failures: max. 17 ms at 0.85 % rated voltage
<b>Drives</b>	
SATA 3.5" hard disk	Installation in internal drive support: <ul style="list-style-type: none"> <li>• 500 GB</li> </ul>
DVD-ROM, 5.25", SATA	<ul style="list-style-type: none"> <li>• 16 x (DVD media)</li> <li>• 48 x (CD media)</li> </ul>
DVD±R/RW, 5.25", SATA	<ul style="list-style-type: none"> <li>• 16 x 24 x 8 x (DVD media)</li> <li>• 48 x 48 x 24 x (CD media)</li> </ul>
Slots for drives	<ul style="list-style-type: none"> <li>• Front: 3 x 5.25"</li> <li>• Internal: 1 x 3.5"</li> </ul>
<b>Interfaces</b>	
Ethernet	2 x Realtek Gbit Ethernet (RJ45)
USB 2.0	<ul style="list-style-type: none"> <li>• 2 x front (high current)</li> <li>• 4 x rear (high current)</li> </ul>
Serial	9-pole COM1 (V.24); COM2 (V.24)
VGA	1 x
DVI-D	1 x
Keyboard	PS/2
Mouse	PS/2
Audio	1 x Line In; 1 x Line Out; 1 x Micro

<sup>1)</sup> Memory information: In order to use a memory with more than 4 GB, a 64-bit operating system is required. In the case of configurations with 4 GB, the visible memory can be reduced to about 3.5 GB or less (with 32-bit operating systems).

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<b>Electromagnetic compatibility (EMC)</b>			
Emitted interference	EN 61000-6-4; CISPR 22; FCC class A; EN 61000-3-2 class D; EN 61000-3-3		
Immunity to conducted interference on the supply lines	<ul style="list-style-type: none"> <li>• ± 2 kV (IEC 61000-4-4, burst)</li> <li>• ± 1 kV (IEC 61000-4-5, surge symm.)</li> <li>• ± 2 kV (IEC 61000-4-5, surge unsymm.)</li> </ul>		
Noise immunity on signal lines	<ul style="list-style-type: none"> <li>• ± 2 kV (IEC 61000-4-4, burst, length &gt; 30 m)</li> <li>• ± 1 kV (IEC 61000-4-4, burst, length &lt; 30 m)</li> <li>• ± 2 kV (IEC 61000-4-5, surge, length &gt; 30 m)</li> </ul>		
Immunity to static discharge	<ul style="list-style-type: none"> <li>• ± 4 kV, contact discharge (IEC 61000-4-2)</li> <li>• ± 8 kV, air discharge (IEC 61000-4-2)</li> </ul>		
Immunity to high radio frequency interference	<ul style="list-style-type: none"> <li>• 1 V/m 80 % AM; 2 ... 2.7 GHz (IEC 61000-4-3)</li> <li>• 3 V/m 80 % AM; 1.4 ... 2 GHz (IEC 61000-4-3)</li> <li>• 10 V/m 80 % AM; 80 MHz ... 1 GHz (IEC 61000-4-3);</li> <li>• 10 V, 150 kHz ... 80 MHz (IEC 61000-4-6)</li> </ul>		
Immunity to magnetic fields	30 A/m, 50/60 Hz (IEC 61000-4-8)		
Ambient temperature during operation	5 ... 40 °C Note: Limitations for operation of DVD±R/RW		
Humidity during operation	5 ... 80 % at 25 °C (no condensation)		
<b>Monitoring functions</b>			
Front LEDs	<ul style="list-style-type: none"> <li>• POWER (PC switched on)</li> <li>• HDD (access to hard disk)</li> </ul>		
<b>Ambient conditions</b>			
Degree of protection	IP20 acc. to EN 60529		
Dust protection	yes		
Protection class	I acc. to IEC 61140		
<b>Approvals and safety regulations</b>			
Safety regulations	IEC 60950-1; CSA		
Approvals	cULus 60950		
CE mark	Use in industry: <ul style="list-style-type: none"> <li>• Emitted interference: IEC 61000-6-4:2011</li> <li>• Noise immunity: IEC 61000-6-2:2005</li> </ul>		
<b>Dimensions and weight</b>			
Installation dimensions (W x H x D) in mm	430 x 177 x 463		
Weight, approx.	15 kg		



All dimensions in mm.

### More information

More information on SIMATIC IPC is available at:

[www.siemens.com/simatic-ipc](http://www.siemens.com/simatic-ipc)

A current overview of the configurations is provided by the SIMATIC IPC online configurator:

[www.siemens.com/ipc-configurator](http://www.siemens.com/ipc-configurator)

In-depth information is available in the SIMATIC manuals:

[www.siemens.com/simatic-doku](http://www.siemens.com/simatic-doku)

Information material for download:

[www.siemens.com/simatic/printmaterial](http://www.siemens.com/simatic/printmaterial)

Technical documentation is available in our Service & Support portal:

[www.siemens.com/automation/support](http://www.siemens.com/automation/support)

Your personal contact partner is listed at

[www.siemens.com/automation/partner](http://www.siemens.com/automation/partner)

Electronic ordering via the Internet with the Mall:

[www.siemens.com/industrymall](http://www.siemens.com/industrymall)

Additional information on PC-based Automation with SIMATIC is available under:

[www.siemens.com/pc-based-automation](http://www.siemens.com/pc-based-automation)

Additional information on the TIA Portal:

[www.siemens.com/tia-portal](http://www.siemens.com/tia-portal)

Additional information on SIMATIC Safety Integrated:

[www.siemens.com/f-cpu](http://www.siemens.com/f-cpu)

### Note regarding SIMATIC PC operating system licenses

The accompanying operating system license is only valid for installation on the respective supplied SIMATIC IPC. Installation can only be performed on these SIMATIC systems in accordance with Microsoft OEM licensing regulations.