

SIMATIC IPC647C (RACK PC, 19", 2U); INTERFACES: 2 X GBIT LAN (RJ45), 1 X DVI-I; AUDIO, 2 X COM; 1 X LPT; 2 X PS/2; 4X USB 2.0 BACKSIDE, 2X USB 2.0 FRONTSIDE; 1X USB 2.0 INTERNALLY; TEMPERATURE AND FAN CONTROL; WATCHDOG; BOARD RETAINER;

### Supply voltage

Type of supply voltage	100 - 240 V AC
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### Processor

Processor type	Core i7-610E (2.53 GHz 2C/4T, 4 MB Cache, TB, VT-x, VT-d, EM64T); Core i5-520E (2.4 GHz, 2C/4T, 3 MB Cache, TB, VT-x, VT-d, EM64T); Core i3-330E (2.13 GHz, 2C/4T, 3 MB Cache, VT-x, EM64T)
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### Drives

Hard disk	250 GB or 500 GB SATA HDD, RAID1 HDD, 32 GB SATA SSD, installed internally in the shock and vibration-damped drive rack, or on the front drive support in the swap frame
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### Memory

Type of memory	DDR3-SDRAM
Main memory	1 GB to 8 GB, ECC optional
<ul style="list-style-type: none"> <li>Capacity of main memory, max.</li> </ul>	8 Gbyte

### Hardware configuration

Slots	
<ul style="list-style-type: none"> <li>free slots</li> </ul>	2x PCI, 1x PCIe x16 or 1x PCI, 1x PCIe x8 (4 lane), 1x PCIe x16; all modules up to 312 mm in length are supported

### Interfaces

Interfaces/bus type	2 x COM, 1 x LPT, 1 x DVI-I, 2 x PS/2, audio (Microphone In, Line Out), 7 x USB 2.0, 2 x Gigabit Ethernet, PROFIBUS or PROFINET optional
PROFIBUS/MPI	onboard, isolated, max. 12 Mbit/s, CP 5611-compatible
serial interface	COM1: 1 x V.24 (RS232), COM2: 1 x V.24 (RS232C)
parallel interface	LPT1 (EPP/ECP)
USB port	2x USB 2.0 on front, 4x USB 2.0 on rear, 1x USB 2.0 internal
Connection for keyboard/mouse	2x PS/2

### Video interfaces

<ul style="list-style-type: none"> <li>Graphics interface</li> </ul>	1 x DVI-I or 1 x VGA (via adapter) optional
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### Monitoring functions

Temperature	Yes
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Watchdog	Yes
Status LEDs	POWER; HARD DISK; ETHERNET 1; ETHERNET 2; PROFIBUS/MPI; SF PROFINET; WATCHDOG; TEMP; HDD1 ALARM; HDD2 ALARM

### Standards, approvals, certificates

CE mark	Yes
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### Ambient conditions

#### Ambient temperature during operation

<ul style="list-style-type: none"> <li>Ambient temperature during operation</li> </ul>	+ 5 °C to + 35 °C without restrictions; + 5 °C to + 45 °C no burner operation; + 5 °C to + 50 °C no ODD operation; power dissipation of the expansion modules in total less than 30 W
<ul style="list-style-type: none"> <li>min.</li> </ul>	5 °C
<ul style="list-style-type: none"> <li>max.</li> </ul>	50 °C

#### Relative humidity

<ul style="list-style-type: none"> <li>Relative humidity</li> </ul>	Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)
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#### Vibrations

<ul style="list-style-type: none"> <li>Vibration load in operation</li> </ul>	Tested according to IEC 60068-2-6: 10 cycles, 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s <sup>2</sup> (0.5 g)
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#### Shock testing

<ul style="list-style-type: none"> <li>Shock load during operation</li> </ul>	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s <sup>2</sup> (5 g), 30 ms, 100 shocks per axis
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### Software

SIMATIC Software	Optional in a package with SIMATIC WinCC, WinCC flexible, or WinAC RTX
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