

SIMATIC IPC647C (Rack PC, 19", 2 HU); Interfaces: 2 x Gbit LAN(RJ45) 1x DVI-I; audio, 2x COM; 1x LPT; 2x PS/2; 4x USB 2.0 on rear, 2x USB 2.0 on the front; 1x USB 2.0 internal; Temp. and fan monitoring; Watchdog, Card retainer

### Supply voltage

Type of supply voltage	100 - 240 V AC
Line frequency	
<ul style="list-style-type: none"> <li>Rated value 50 Hz</li> </ul>	Yes
<ul style="list-style-type: none"> <li>Rated value 60 Hz</li> </ul>	Yes

### 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
Capacity of main memory, max.	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	2x COM, 1x LPT, 1x DVI-I, 2x PS/2, audio (Microphone In, Line Out), 7x USB 2.0, 2x Gigabit Ethernet, PROFIBUS or PROFINET optional
PROFIBUS/MPI	onboard, isolated, max. 12 Mbit/s, CP 5611-compatible
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
serial interface	COM1: 1 x V.24 (RS232), COM2: 1 x V.24 (RS232C)
parallel interface	LPT1 (EPP/ECP)
Video interfaces	
<ul style="list-style-type: none"> <li>Graphics interface</li> </ul>	1 x DVI-I or 1 x VGA (via adapter) optional

## Integrated Functions

### Monitoring functions

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|--------------------------|---|
| • Temperature monitoring | Yes   |
| • Watchdog               | Yes   |
| • Status LEDs            | POWER; HARD DISK; ETHERNET 1; ETHERNET 2;<br>PROFIBUS/MPI; SF PROFINET; WATCHDOG; TEMP; HDD1<br>ALARM; HDD2 ALARM |

## Standards, approvals, certificates

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|---------|-----|
| CE mark | Yes |
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## Ambient conditions

### Ambient temperature during operation

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|--|---|
| • Ambient temperature during operation | +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 |
| • min.                                 | 5 °C  |
| • max.                                 | 50 °C   |

### Relative humidity

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|---------------------|--|
| • Relative humidity | Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation) |
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### Vibrations

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|---|--|
| • Vibration resistance during operation acc. to IEC 60068-2-6 | 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

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| • Shock load during operation | 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

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| SIMATIC Software | Optional in a package with SIMATIC WinCC, WinCC flexible, or WinAC RTX |
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**last modified:** 05/20/2018