

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"> Rated value 50 Hz 	Yes
<ul style="list-style-type: none"> Rated value 60 Hz 	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"> free slots 	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"> Graphics interface 	1 x DVI-I or 1 x VGA (via adapter) optional

Integrated Functions	
Monitoring functions	
<ul style="list-style-type: none"> • Temperature monitoring • Watchdog • Status LEDs 	<p>Yes</p> <p>Yes</p> <p>POWER; HARD DISK; ETHERNET 1; ETHERNET 2; PROFIBUS/MPI; SF PROFINET; WATCHDOG; TEMP; HDD1 ALARM; HDD2 ALARM</p>
Standards, approvals, certificates	
CE mark	Yes
Ambient conditions	
Ambient temperature during operation	
<ul style="list-style-type: none"> • Ambient temperature during operation • min. • max. 	<p>+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</p> <p>5 °C</p> <p>50 °C</p>
Relative humidity	
<ul style="list-style-type: none"> • Relative humidity 	Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)
Vibrations	
<ul style="list-style-type: none"> • 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 ² (0.5 g)
Shock testing	
<ul style="list-style-type: none"> • Shock load during operation 	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s ² (5 g), 30 ms, 100 shocks per axis
Software	
SIMATIC Software	Optional in a package with SIMATIC WinCC, WinCC flexible, or WinAC RTX
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