

\*\*\*No longer available\*\*\* SIMATIC IPC647C (Rack PC, 19", 2HU);  
 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 Core i7-610E (2C/4T, 2.53  
 GHz, 4 MB cache, TB, VT-X, VT-D, EM64-T, AMT); Mainboard with  
 PROFINET (3x RJ45, CP 1616-compatible) 250 GB HDD SATA, 0.5 G  
 vibration, 5 G shock, internal 4 GB DDR3 SD-RAM (2x 2 GB), Dual channel  
 CompactFlash drive (without CF) front-side Bus module 3 slots: 2x PCI, 1x  
 PCIE X16 occupied; +graphics card PCIE X16, 256 MB, (DH: 2x VGA per  
 DP adapter) Windows 7 Ultimate, 64 bit, MUI (de, en, fr, es, it); SP1  
 enclosed SIMATIC PC Image&Partition Creator V3.3 enclosed 110/230V  
 industrial power supply unit with NAMUR, Power supply cable Europe

| Supply voltage                         |                                                                                                                                                                                                   |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of supply voltage                 | 100 - 240 V AC                                                                                                                                                                                    |
| Line frequency                         |                                                                                                                                                                                                   |
| • Rated value 50 Hz                    | Yes                                                                                                                                                                                               |
| • 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);<br>Core i5-520E (2.4 GHz, 2C/4T, 3 MB Cache, TB, VT-x, VT-d, EM64T);<br>Core i3-330E (2.13 GHz, 2C/4T, 3 MB Cache, VT-x, EM64T) |
| Drives                                 |                                                                                                                                                                                                   |
| Hard disk                              | 250 GB or 500 GB SATA HDD, RAID1 HDD, 32 GB SATA SSD,<br>installed internally in the shock and vibration-damped drive rack, or on<br>the front drive support in the swap frame                    |
| 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                                  |                                                                                                                                                                                                   |
| • free slots                           | 2x PCI, 1x PCIe (x16) or 1x PCI, 1x PCIe (x8) (4 lane), 1x PCIe (x16) all<br>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<br>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 (RS 232), COM2: 1 x V.24 (RS 232C)                                                                                                                                                 |
| parallel interface                     | LPT1 (EPP/ECP)                                                                                                                                                                                    |
| Video interfaces                       |                                                                                                                                                                                                   |
| • Graphics interface                   | 1 x DVI-I or 1 x VGA (via adapter) optional                                                                                                                                                       |
| Integrated Functions                   |                                                                                                                                                                                                   |
| Monitoring functions                   |                                                                                                                                                                                                   |
| • Temperature monitoring               | Yes                                                                                                                                                                                               |
| • Watchdog                             | Yes                                                                                                                                                                                               |
| • Status LEDs                          | POWER; HARD DISK; ETHERNET 1; ETHERNET 2; PROFIBUS/MPI;<br>SF PROFINET; WATCHDOG; TEMP; HDD1 ALARM; HDD2 ALARM                                                                                    |
| Standards, approvals, certificates     |                                                                                                                                                                                                   |
| CE mark                                | Yes                                                                                                                                                                                               |
| Ambient conditions                     |                                                                                                                                                                                                   |
| Ambient temperature during operation   |                                                                                                                                                                                                   |
| • Ambient temperature during operation | +5 °C to +35 °C without restrictions, +5 °C to +45 °C no burner<br>operation, +5 °C to +50 °C no ODD operation, power dissipation of the<br>expansion modules in total less than 30 W             |

|                                                               |                                                                                                                        |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Relative humidity                                             |                                                                                                                        |
| • Relative humidity                                           | Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)                               |
| Vibrations                                                    |                                                                                                                        |
| • 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) |
| Shock testing                                                 |                                                                                                                        |
| • 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   |
| Software                                                      |                                                                                                                        |
| SIMATIC Software                                              | Optional in a package with SIMATIC WinCC, WinCC flexible, or WinAC RTX                                                 |

**last modified:**

2/16/2022 