SIEMENS

Data sheet

6AG4112-2KP83-2XA6

SIMATIC IPC647D (Rack PC, 19", 2 HU); 2x Gbit Ethernet (IE/PN), RJ45; 1x DVI-I; 2x display ports; 1x COM 1; 2x PS/2; audio; 4x USB 3.0, incl. 1x internal; 3x USB 2.0; Temp. and fan monitoring; Watchdog, Card retainer XEON E3-1268LV3 (4C/8T, 2.3 (3.3) GHz, 8 MB cache VT-D, AMT); mainboard without fieldbus RAID1, 1 TB (2x 1 TB HDD SATA, mirror disks), in removable frame, hot swap; front-side 32 GB DDR3 SD-RAM (4x 8 GB), ECC, Dual channel Bus module 2 slots: 2x PCIE X16; DVD +/-RW (SLIM) COM2; LPT (1 slots occupied); Graphics onboard without operating system SIMATIC PC DiagMonitor V5.0 enclosed 2x 110/240V redund. power supply; without line cable

| Design Rack PC, 19°, 2U Supsity Voltage 100/240 V AC (autorange) 50 / 80 Hz; optional redundant 100/240 V AC Line frequency Rack PC, 19°, 2U Supsity Voltage 100/240 V AC (autorange) 50 / 80 Hz; optional redundant 100/240 V AC Line frequency Rated value 80 Hz Rated value 80 Hz Yes Rated value 80 Hz Yes Mains buffering Mains-voltage failure stored energy time 20 ms Processor Processor Processor type Xeon E3-1288L v3 (4C/BT, 2.3 (3.3) GHz, 8 MB cache); Core i5-4570TE (2C/4T, 2.7 (3.9) GHz, 4 MB cache); Core i5-4570TE (2C/4T, 2.7 (3.9) GHz, 4 MB cache); Core i5-4530TE (2C/4T, 2.4 GHz, 4 MB cache); Core i5-4570TE (2C/4T, 2.7 (3.9) GHz, 4 MB cache); Core i5-4570TE (2C/4T, 2.7 (3.9) GHz, 4 MB cache); Core i5-4530TE (2C/4T, 2.4 GHz, 4 MB cache); Core i5-450TE (2C/4T, 2.7 (3.9) GHz, 4 MB cache); Core i5-4530TE (2C/4T, 2.4 GHz, 4 MB cache); Core i5-4530TE (2C/4T, 2.4 GHz, 4 MB cache); Core i5-450TE (2C/4T, 2.7 GHz, 4 MB cache); Core i5-450TE (2C/4T, 2.7 GHz, 4 MB cache); Core i5-450TE (2C/4T, 2.7 GHz, 4 MB cache); Core i5-450TE (2C/4T, 2.4 GHz, 4 MB cache); Core i5-450TE (2C/4T, 2.7 GHz, 4 MB cache); Core i5-450TE (2C/4T, 2.4 GHz, 4 MB cache); Core i5-450TE (2C/4T, 2.4 GHz, 4 MB cache); Core i5-450TE (2C/4T, 2.7 GHz, 4 MB cache); Core i5-450TE (2C/4T, 2.4 GHz, 4 MB cache); Core i5-450TE | Installation type/mounting | |
|--|--|--|
| Supply voltage 100/240 V AC (autorange) 50 / 60 Hz, optional redundant 100/240 V AC (limiter frequency | Mounting | |
| Type of supply voltage 100/240 V AC (autorange) 50 / 60 Hz; optional redundant 100/240 V AC Line frequency Rated value 50 Hz Rated value 50 Hz Rated value 60 Hz Yes Mains-voltage failure stored energy time 20 ms Processor Processor type Xeon E3-1288L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB cache); Core i5-4570TE (2C/4T, 2.7 (3.3) GHz, 4 MB cache); Core i6-4330TE (2C/4T, 2.4 GH | Design | Rack PC, 19", 2U |
| Line frequency Rated value 50 Hz Rated value 50 Hz Rated value 50 Hz Rated value 60 | Supply voltage | |
| Rated value 50 Hz Rated value 60 Hz Rated value | Type of supply voltage | 100/240 V AC (autorange) 50 / 60 Hz; optional redundant 100/240 V AC |
| ■ Rated value 60 Hz Mains buffering ■ Nains/voltage failure stored energy time Processor Processor type Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB cache); Core i5-4570TE (2C/4T, 2.4 GHz, 4 MB cache); Core i5-4570TE (2C/4T, 2.7 (3.3) GHz, 4 MB cache); Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB cache) Chipset Intel DH82C226 PCH Graphic Graphic Onboard graphics controller Intel HD 4600 Graphics integrated into the processor / PC/L-Express graphics card (Dual Head: 2x VGA or 2x DVI-D) in the PC/le (x16) slot (optional) Drives Optical drives Optical drives DVD±R/RW (SilmLine) 500 GB HDD, 17 B HDD, 2x 1 TB HDD, RAID1 (2x 1 TB HDD, mirror disks); RAID1 (2x 1 TB HDD SA5, mirror disks) with PC/le (x8) RAID controller incl. ZMCP module Yes; 240 GB SSD; RAID1 (2x 240 GB SSD, mirror disks) with PC/le (x8) RAID controller incl. ZMCP module Yes; 240 GB SSD; RAID1 (2x 240 GB SSD, mirror disks) Slot for drives Mounted internally on the fixed hard disk support, or mounted at the front in the low-profile removable drive bay (hot-swap in RAID configurations) Mormory Main memory 2 GB to 32 GB DDR3-1600 DIMM, ECC optional 32 Gbyte Hardwaro configuration Slots • free slots 2x PC/le mech, (x16) (4 lanes) or 4x PC/le mech, (x16) (4 lanes /8 lanes depending on slot) or 2x PC/l. 2x PC/le mech, (x16) (8 lanes); all modules to a length of 312 mm can be used Interfaces Interfaces/bus type 1x COM1, 1x COM2 (optional), 1x LPT (optional), 2x DisplayPort, 1x DVI-I, 2x PS/2, audio (Microphone In, Line Dut), 7x USB, 2x Gigabit Ethernet, PROFIBUS/MPI Optionally onboard, isolated, max. 12 Mbl/s, no plug-in card necessary, CP 5522-compatible Connection for keyboard/mouse 2x PS/2 Connection for keyboard/mouse 2x PS/2 Connection for keyboard/mouse 2x PS/2 Optional LPT1 | Line frequency | |
| Mains buffering Mains/voltage failure stored energy time Processor type Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB cache); Core i5-4570TE (2C/4T, 2.7 (3.3) GHz, 4 MB cache); Core i5-4570TE (2C/4T, 2.4 GHz, 4 MB cache) Chipset Intel DH82C226 PCH Graphic Graphic Onboard graphics controller Intel HD 4600 Graphics integrated into the processor / PCI-Express graphics card (Dual Head: 2x VGA or 2x DVI-D) in the PCIe (x16) sot (optional) Processor / PCI-Express graphics card (Dual Head: 2x VGA or 2x DVI-D) in the PCIe (x16) sot (optional) Brives Optical drives DVD±R/RW (SilmLine) 500 GB HDD, 1 TB HDD, 2x 1 TB HDD, RAID1 (2x 1 TB HDD, mirror disks); RAID1 (2x 1 TB HDD SAS, mirror disks) with PCIe (x8) RAID controller incl. ZMCP module SSD Yes; 240 GB SSD; RAID1 (2x 240 GB SSD, mirror disks) Mounted internally on the fixed hard disk support, or mounted at the front in the low-profile removable drive bay (hot-swap in RAID configurations) Memory Main memory 2 GB to 32 GB DDR3-1600 DIMM, ECC optional Stots • free slots • free slots 2x PCIe mech. (x16) (4 lanes) or 4x PCIe mech. (x16) (4 lanes); all modules to a length of 312 mm can be used Interfaces Interfaces/bus type 1x COM1; 1x COM2 (optional); 1x LPT (optional), 2x DisplayPort, 1x DVI-I; 2x PCI; and to (Microphone In. Line Out), 7x USB, 2x Gigabit Ethermet, PROFIBUS/MPI Optionally onboard, isolated, max. 12 MbIt/s, no plug-in card necessary, CP 5522-compatible Value SSD, Value SSD, Ox USB 2.0 rear, 1x USB 3.0, 1x USB 2.0 front, 1x USB 3.0 internal interface COM1: 1x RS 232, COM2 (optional); 1x RS 232 optional LPT1 Multimedia | Rated value 50 Hz | Yes |
| Processor Processor type Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB cache): Core i5-4570TE (2C/4T, 2.7 (3.3) GHz, 4 MB cache): Core i5-4570TE (2C/4T, 2.7 (3.3) GHz, 4 MB cache): Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB cache: Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB cache: Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB cache: Core i3-4330TE (2C/4T, | Rated value 60 Hz | Yes |
| Processor type Xeon E3-1268L v3 (4C/8T, 2.7 (3.3) GHz, 8 MB cache); Core i5-4570TE (2C/4T, 2.7 (3.3) GHz, 4 MB cache); Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB cache) Chipset Intel DH62C226 PCH Graphic Graphic Graphic Controller Obbard graphics controller intel HD 4600 Graphics integrated into the processor? PCI-Express graphics card (Dual Head: 2x VGA or 2x DVI-D) in the PCIe (x16) slot (optional) Drives Optical drives DVD#R/RW (SlimLine) Hard disk 500 GB HDD, 1 TB HDD, 2x 1 TB HDD, RAID1 (2x 1 TB HDD, mirror disks); RAID1 (2x 1 TB HDD, RAID1 (2x 1 TB HDD, mirror disks); RAID1 (2x 1 TB HDD, SS), mirror disks) with PCIe (x8) RAID controller incl. SSD Yes; 240 GB SSD; RAID1 (2x 240 GB SSD, mirror disks) with PCIe (x8) RAID controller incl. Wounted Internally on the fixed hard disk support, or mounted internally in vibration/shock-absorbing hard disk support, or mounted at the front in the low-profile removable drive bay (hot-swap in RAID configurations) Memory Main memory 2 GB to 32 GB DDR3-1600 DIMM, ECC optional Capacity of main memory, max. 32 Gbyte Hardware configuration Slots • free slots 2x PCIe mech. (x16) (4 lanes) or 4x PCIe mech. (x16) (4 lanes / 8 lanes depending on slot) or 2x PCI, 2x PCIe mech. (x16) (8 lanes); all modules to a length of 312 mm can be used Interfaces Interfaces/bus type 1x COM1, 1x COM2 (optional), 1x LPT (optional), 2x DisplayPort, 1x DVI-I, 2x PS/2; audio (Microphone In, Line Qui), 7x USB, 2x Gigabit Ethernet, PROFIBUS or PROFINET optional PROFIBUS/MPI optionally onboard, isolated, max. 12 Mbit/s, no plug-in card necessary, CP 5622-compatible 2x PS/2 audio (Microphone In, Line Qui), 7x USB, 2x Gigabit Ethernet, PROFIBUS or PROFINET optional connection for keyboard/mouse 2x PS/2 serial interface COM1: 1x RS 232, COM2 (optional): 1x RS 232 oparallel interface Multimedia | Mains buffering | |
| Processor type Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB cache); Core i5-4570TE (2C/4T, 2.7 (3.3) GHz, 4 MB cache); Core i5-4570TE (2C/4T, 2.4 GHz, 4 MB cache); Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB cache; Core | Mains/voltage failure stored energy time | 20 ms |
| (2C/dT, 2.7 (3.3) GHz, 4 MB cache); Core i3-4330TE (2C/dT, 2.4 GHz, 4 MB cache) Chipset Intel DH82C226 PCH Graphic Graphic controller PO-Drives Optical drives DVD2R/RW (SlimLine) Drives DVD2R/RW (SlimLine) Drives DVD2R/RW (SlimLine) Hard disk SD0 GB HDD, 1 TB HDD, 2x 1 TB HDD, RAID1 (2x 1 TB HDD, mirror disks); RAID1 (2x 1 TB HDD SAS, mirror disks) with PCle (x8) RAID controller incl. ZMCP module SSD Yes; 240 GB SSD; RAID1 (2x 240 GB SSD, mirror disks) with PCle (x8) RAID controller incl. ZMCP module SSD Yes; 240 GB SSD; RAID1 (2x 240 GB SSD, mirror disks) with PCle (x8) RAID controller incl. ZMCP module SSD Yes; 240 GB SSD; RAID1 (2x 240 GB SSD, mirror disks) with PCle (x8) RAID controller incl. ZMCP module SSD Yes; 240 GB SSD; RAID1 (2x 240 GB SSD, mirror disks) with PCle (x8) RAID configurations with PCle removable drive bay (hot-swap in RAID configurations) Memory Main memory 2 GB to 32 GB DDR3-1600 DIMM, ECC optional 2 GB | Processor | |
| Graphic Graphics controller Graphics controller Graphics controller Graphics controller Graphics controller Graphics controller Drives Optical drives DVD±R/RW (SlimLine) Hard disk 500 GB HDD, 1 TB HDD, RAID1 (2x 1 TB HDD, mirror disks); RAID1 (2x 1 TB HDD RAID1 (2x 1 TB HDD, mirror disks); RAID1 (2x 1 TB HDD SAS, mirror disks) with PCIe (x8) RAID controller incl. ZMCP module SSD Yes; 240 GB SSD; RAID1 (2x 240 GB SSD, mirror disks) Slot for drives Mounted internally on the fixed hard disk support, or mounted internally in vibration/shock-absorbing hard disk support, or mounted at the front in the low-profile removable drive bay (hot-swap in RAID configurations) Memory Main memory 2 GB to 32 GB DDR3-1600 DIMM, ECC optional 2x PCIe mech. (x16) (4 lanes) or 4x PCIe mech. (x16) (4 lanes) / 8 lanes depending on slot) or 2x PCI, 2x PCIe mech. (x16) (8 lanes); all modules to a length of 312 mm can be used Interfaces Interfaces/bus type 1x COM1, 1x COM2 (optional), 1x LPT (optional), 2x DisplayPort, 1x DVI-I, 2x PS/2, audio (Microphone In, Line Out), 7x USB, 2x Gigabit Ethernet, PROFIBUS or PROFINET option. PROFIBUS/MPI optionally onboard, isolated, max. 12 Mbit/s, no plug-in card necessary, CP 5622-compatible 2x USB 3.0, 2x USB 2.0 rear, 1x USB 3.0, 1x USB 2.0 front, 1x USB 3.0 internal Connection for keyboard/mouse 2x PS/2 serial interface Optional LPT1 Multimedia | Processor type | (2C/4T, 2.7 (3.3) GHz, 4 MB cache); Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB |
| Graphics controller Onboard graphics controller Intel HD 4600 Graphics integrated into the processor / PCI-Express graphics card (Dual Head: 2x VGA or 2x DVI-D) in the PCIe (x16) sold (optional) Drives Optical drives DVD±R/RW (SlimLine) Hard disk 500 GB HDD, 1 TB HDD, 2x 1 TB HDD, RAID1 (2x 1 TB HDD, mirror disks): RAID1 (2x 1 TB HDD ASS, mirror disks) with PCIe (x8) RAID controller incl. ZMCP module SSD Yes; 240 GB SSD; RAID1 (2x 240 GB SSD, mirror disks) Mounted internally on the fixed hard disk support, or mounted at the front in the low-profile removable drive bay (hot-swap in RAID configurations) Memory Main memory 2 GB to 32 GB DDR3-1600 DIMM, ECC optional Capacity of main memory, max. Hardware configuration Slots • free slots 2x PCIe mech, (x16) (4 lanes) or 4x PCIe mech, (x16) (4 lanes); all modules to a length of 312 mm can be used Interfaces Interfaces/bus type 1x COM1, 1x COM2 (optional), 1x LPT (optional), 2x DisplayPort, 1x DVI-I, 2x PS/2, audio (Microphone In, Line Out), 7x USB, 2x Gigabit Ethernet, PROFIBUS or PROFINET optional PROFIBUS/MPI optionally onboard, isolated, max. 12 Mbit/s, no plug-in card necessary, CP 5622-compatible 2x USB 3.0, 2x USB 2.0 rear, 1x USB 3.0, 1x USB 2.0 front, 1x USB 3.0 internal Connection for keyboard/mouse 2x PS/2 serial interface Optional LPT1 Multimedia | Chipset | Intel DH82C226 PCH |
| processor / PCI- Express graphics card (Dual Head: 2x VGA or 2x DVI-D) in the PCIe (x16) slot (optional) Drives Optical drives DVD±R/RW (SlimLine) Hard disk 500 GB HDD, 1 TB HDD, 2x 1 TB HDD, RAID1 (2x 1 TB HDD, mirror disks); RAID1 (2x 1 TB HDD, RAID1 (2x 21 TB HDD, mirror disks)); RAID1 (2x 240 GB SSD, mirror disks) with PCIe (x8) RAID controller incl. ZMCP module SSD Yes; 240 GB SSD; RAID1 (2x 240 GB SSD, mirror disks) mirror disks) Slot for drives Mounted internally on the fixed hard disk support, or mounted internally in vibration/shock-absorbing hard disk support, or mounted at the front in the low-profile removable drive bay (hot-swap in RAID configurations) Memory Main memory 2 GB to 32 GB DDR3-1600 DIMM, ECC optional Capacity of main memory, max. Hardware configuration Slots 2x PCle mech. (x16) (4 lanes) or 4x PCle mech. (x16) (4 lanes / 8 lanes depending on slot) or 2x PCl, 2x PCle mech. (x16) (8 lanes); all modules to a length of 312 mm can be used Interfaces Interfaces/bus type 1x COM1, 1x COM2 (optional), 1x LPT (optional), 2x DisplayPort, 1x DVI-I, 2x PSi2, audio (Microphone In, Line Out), 7x USB, 2x Gigabit Ethernet, PROFIBUS or PROFINET optional PROFIBUS/MPI optionally onboard, isolated, max. 12 Mbit/s, no plug-in card necessary, CP 5622-compatible USB port 2x USB 3.0, 2x USB 2.0 rear, 1x USB 3.0, 1x USB 2.0 front, 1x USB 3.0 internal </td <td>Graphic</td> <td></td> | Graphic | |
| Optical drives DVD±R/RW (SlimLine) Hard disk DVD±R/RW (SlimLine) FAID (2x 1 TB HDD, RAID1 (2x 1 TB HDD, RAID1 (2x 1 TB HDD, mirror disks); RAID1 (2x 1 TB HDD SAS, mirror disks) with PCIe (x8) RAID controller incl. ZMCP module SSD Yes; 240 GB SSD; RAID1 (2x 240 GB SSD, mirror disks) Mounted internally on the fixed hard disk support, or mounted internally in vibration/shock-absorbing hard disk support, or mounted at the front in the low-profile removable drive bay (hot-swap in RAID configurations) Memory Main memory 2 GB to 32 GB DDR3-1600 DIMM, ECC optional Capacity of main memory, max. Hardware configuration Slots • free slots 2x PCIe mech. (x16) (4 lanes) or 4x PCIe mech. (x16) (4 lanes / 8 lanes depending on slot) or 2x PCI, 2x PCIe mech. (x16) (8 lanes); all modules to a length of 312 mm can be used Interfaces/bus type 1x COM1, 1x COM2 (optional), 1x LPT (optional), 2x DisplayPort, 1x DVI-I, 2x PS/2, audio (Microphone In, Line Out), 7x USB, 2x Gigabit Ethernet, PROFIBUS or PROFINET optional PROFIBUS/MPI Optionally onboard, isolated, max. 12 Mbit/s, no plug-in card necessary, CP 5622-compatible USB port 2x USB 3.0, 2x USB 2.0 rear, 1x USB 3.0, 1x USB 2.0 front, 1x USB 3.0 internal Connection for keyboard/mouse 2x PS/2 serial interface Optional LPT1 Multimedia | Graphics controller | processor / PCI-Express graphics card (Dual Head: 2x VGA or 2x DVI-D) in the |
| Hard disk Sou GB HDD, 1 TB HDD, 2x 1 TB HDD, RAID1 (2x 1 TB HDD, mirror disks); RAID1 (2x 1 TB HDD SAS, mirror disks) with PCIe (x8) RAID controller incl. ZMCP module SSD Yes; 240 GB SSD; RAID1 (2x 240 GB SSD, mirror disks) Slot for drives Mounted internally on the fixed hard disk support, or mounted internally in vibration/shock-absorbing hard disk support, or mounted at the front in the low-profile removable drive bay (hot-swap in RAID configurations) Memory Main memory 2 GB to 32 GB DDR3-1600 DIMM, ECC optional Capacity of main memory, max. Hardware configuration Slots • free slots 2x PCIe mech. (x16) (4 lanes) or 4x PCIe mech. (x16) (4 lanes / 8 lanes depending on slot) or 2x PCI, 2x PCIe mech. (x16) (8 lanes); all modules to a length of 312 mm can be used Interfaces Interfaces/bus type 1x COM1, 1x COM2 (optional), 1x LPT (optional), 2x DisplayPort, 1x DVI-I, 2x PS/2, audio (Microphone In, Line Out), 7x USB, 2x Gigabit Ethernet, PROFIBUS or PROFINET optional PROFIBUS/MPI optionally onboard, isolated, max. 12 Mbit/s, no plug-in card necessary, CP 5622-compatible USB port 2x USB 3.0, 2x USB 2.0 rear, 1x USB 3.0, 1x USB 2.0 front, 1x USB 3.0 internal connection for keyboard/mouse 2x PS/2 serial interface Optional LPT1 Multimedia | Drives | |
| RAID1 (2x 1 TB HDD SAS, mirror disks) with PCIe (x8) RAID controller incl. ZMCP module SSD Yes; 240 GB SSD; RAID1 (2x 240 GB SSD, mirror disks) Mounted internally on the fixed hard disk support, or mounted internally in vibration/shock-absorbing hard disk support, or mounted at the front in the low-profile removable drive bay (hot-swap in RAID configurations) Memory Main memory 2 GB to 32 GB DDR3-1600 DIMM, ECC optional Capacity of main memory, max. 32 Gbyte Hardware configuration Slots • free slots 2x PCIe mech. (x16) (4 lanes) or 4x PCIe mech. (x16) (4 lanes / 8 lanes depending on slot) or 2x PCI, 2x PCIe mech. (x16) (8 lanes); all modules to a length of 312 mm can be used Interfaces Interfaces/bus type 1x COM1, 1x COM2 (optional), 1x LPT (optional), 2x DisplayPort, 1x DVI-I, 2x PS/2, audio (Microphone In, Line Out), 7x USB, 2x Gigabit Ethernet, PROFIBUS/MPI optionally onboard, isolated, max. 12 Mbit/s, no plug-in card necessary, CP 6522-compatible USB port 2x USB 3.0, 2x USB 2.0 rear, 1x USB 3.0, 1x USB 2.0 front, 1x USB 3.0 internal Connection for keyboard/mouse 2x PS/2 serial interface OCM1: 1x RS 232, COM2 (optional): 1x RS 232 optional LPT1 Multimedia | Optical drives | DVD±R/RW (SlimLine) |
| Slot for drives Mounted internally on the fixed hard disk support, or mounted internally in vibration/shock-absorbing hard disk support, or mounted at the front in the low-profile removable drive bay (hot-swap in RAID configurations) Memory Main memory 2 GB to 32 GB DDR3-1600 DIMM, ECC optional Capacity of main memory, max. 32 Gbyte Hardware configuration Slots • free slots 2x PCle mech. (x16) (4 lanes) or 4x PCle mech. (x16) (4 lanes / 8 lanes depending on slot) or 2x PCl, 2x PCle mech. (x16) (8 lanes); all modules to a length of 312 mm can be used Interfaces Interfaces/bus type 1x COM1, 1x COM2 (optional), 1x LPT (optional), 2x DisplayPort, 1x DVI-I, 2x PSi/2, audio (Microphone In, Line Out), 7x USB, 2x Gigabit Ethernet, PROFIBUS or PROFIBUS or PROFINET optional PROFIBUS or PROFIBUS or PROFINET optional Optionally onboard, isolated, max. 12 Mbit/s, no plug-in card necessary, CP 5622-compatible USB port 2x USB 3.0, 2x USB 2.0 rear, 1x USB 3.0, 1x USB 2.0 front, 1x USB 3.0 intermal Connection for keyboard/mouse 2x PS/2 serial interface COM1: 1x RS 232, COM2 (optional): 1x RS 232 optional LPT1 Multimedia | Hard disk | RAID1 (2x 1 TB HDD SAS, mirror disks) with PCIe (x8) RAID controller incl. |
| wibration/shock-absorbing hard disk support, or mounted at the front in the low-profile removable drive bay (hot-swap in RAID configurations) Memory Main memory Capacity of main memory, max. Hardware configuration Slots • free slots 2x PCle mech. (x16) (4 lanes) or 4x PCle mech. (x16) (4 lanes / 8 lanes depending on slot) or 2x PCl, 2x PCle mech. (x16) (8 lanes); all modules to a length of 312 mm can be used Interfaces Interfaces/bus type 1x COM1, 1x COM2 (optional), 1x LPT (optional), 2x DisplayPort, 1x DVI-I, 2x PS/2, audio (Microphone In, Line Out), 7x USB, 2x Gigabit Ethernet, PROFIBUS/MPI optionally onboard, isolated, max. 12 Mbit/s, no plug-in card necessary, CP 5622-compatible USB port 2x PS/2 serial interface COM1: 1x RS 232, COM2 (optional): 1x RS 232 parallel interface optional LPT1 Multimedia | SSD | Yes; 240 GB SSD; RAID1 (2x 240 GB SSD, mirror disks) |
| Main memory Capacity of main memory, max. Hardware configuration Slots ● free slots Pree slots 1x COM1, 1x COM2 (optional), 1x LPT (optional), 2x DisplayPort, 1x DVI-I, 2x PS/2, audio (Microphone In, Line Out), 7x USB, 2x Gigabit Ethernet, PROFIBUS/MPI Description of the yeboard/mouse 2x B to 32 GB DDR3-1600 DIMM, ECC optional 32 Gbyte 2x PCle mech. (x16) (4 lanes) or 4x PCle mech. (x16) (4 lanes / 8 lanes depending on slot) or 2x PCl, 2x PCle mech. (x16) (8 lanes); all modules to a length of 312 mm can be used Interfaces Interfaces/bus type 1x COM1, 1x COM2 (optional), 1x LPT (optional), 2x DisplayPort, 1x DVI-I, 2x PS/2, audio (Microphone In, Line Out), 7x USB, 2x Gigabit Ethernet, PROFIBUS or PROFINET optional PROFIBUS/MPI 2x USB 3.0, 2x USB 2.0 rear, 1x USB 3.0, 1x USB 2.0 front, 1x USB 3.0 internal Connection for keyboard/mouse 2x PS/2 serial interface COM1: 1x RS 232, COM2 (optional): 1x RS 232 parallel interface Optional LPT1 Multimedia | Slot for drives | vibration/shock-absorbing hard disk support, or mounted at the front in the low- |
| Capacity of main memory, max. Hardware configuration Slots | Memory | |
| Hardware configuration Slots 2x PCIe mech. (x16) (4 lanes) or 4x PCIe mech. (x16) (4 lanes / 8 lanes depending on slot) or 2x PCI, 2x PCIe mech. (x16) (8 lanes); all modules to a length of 312 mm can be used Interfaces Interfaces/bus type 1x COM1, 1x COM2 (optional), 1x LPT (optional), 2x DisplayPort, 1x DVI-I, 2x PS/2, audio (Microphone In, Line Out), 7x USB, 2x Gigabit Ethernet, PROFIBUS or PROFINET optional PROFIBUS/MPI optionally onboard, isolated, max. 12 Mbit/s, no plug-in card necessary, CP 5622-compatible USB port 2x USB 3.0, 2x USB 2.0 rear, 1x USB 3.0, 1x USB 2.0 front, 1x USB 3.0 internal Connection for keyboard/mouse 2x PS/2 serial interface COM1: 1x RS 232, COM2 (optional): 1x RS 232 parallel interface Multimedia | Main memory | 2 GB to 32 GB DDR3-1600 DIMM, ECC optional |
| Slots 2x PCIe mech. (x16) (4 lanes) or 4x PCIe mech. (x16) (4 lanes / 8 lanes depending on slot) or 2x PCI, 2x PCIe mech. (x16) (8 lanes); all modules to a length of 312 mm can be used Interfaces Interfaces/bus type 1x COM1, 1x COM2 (optional), 1x LPT (optional), 2x DisplayPort, 1x DVI-I, 2x PS/2, audio (Microphone In, Line Out), 7x USB, 2x Gigabit Ethernet, PROFIBUS or PROFINET optional PROFIBUS/MPI optionally onboard, isolated, max. 12 Mbit/s, no plug-in card necessary, CP 5622-compatible USB port 2x USB 3.0, 2x USB 2.0 rear, 1x USB 3.0, 1x USB 2.0 front, 1x USB 3.0 internal Connection for keyboard/mouse 2x PS/2 serial interface COM1: 1x RS 232, COM2 (optional): 1x RS 232 parallel interface Multimedia | Capacity of main memory, max. | 32 Gbyte |
| ● free slots 2x PCle mech. (x16) (4 lanes) or 4x PCle mech. (x16) (4 lanes / 8 lanes depending on slot) or 2x PCl, 2x PCle mech. (x16) (8 lanes); all modules to a length of 312 mm can be used Interfaces Interfaces/bus type 1x COM1, 1x COM2 (optional), 1x LPT (optional), 2x DisplayPort, 1x DVI-I, 2x PS/2, audio (Microphone In, Line Out), 7x USB, 2x Gigabit Ethernet, PROFIBUS or PROFIBUS or PROFINET optional PROFIBUS/MPI optionally onboard, isolated, max. 12 Mbit/s, no plug-in card necessary, CP 5622-compatible USB port 2x USB 3.0, 2x USB 2.0 rear, 1x USB 3.0, 1x USB 2.0 front, 1x USB 3.0 internal Connection for keyboard/mouse 2x PS/2 serial interface COM1: 1x RS 232, COM2 (optional): 1x RS 232 parallel interface optional LPT1 Multimedia | Hardware configuration | |
| Interfaces Interfaces/bus type Interfaces/bus typ | Slots | |
| Interfaces/bus type 1x COM1, 1x COM2 (optional), 1x LPT (optional), 2x DisplayPort, 1x DVI-I, 2x PS/2, audio (Microphone In, Line Out), 7x USB, 2x Gigabit Ethernet, PROFIBUS or PROFINET optional PROFIBUS/MPI optionally onboard, isolated, max. 12 Mbit/s, no plug-in card necessary, CP 5622-compatible USB port 2x USB 3.0, 2x USB 2.0 rear, 1x USB 3.0, 1x USB 2.0 front, 1x USB 3.0 internal Connection for keyboard/mouse 2x PS/2 serial interface COM1: 1x RS 232, COM2 (optional): 1x RS 232 parallel interface optional LPT1 Multimedia | • free slots | depending on slot) or 2x PCI, 2x PCIe mech. (x16) (8 lanes); all modules to a |
| PS/2, audio (Microphone In, Line Out), 7x USB, 2x Gigabit Éthernet, PROFIBUS or PROFINET optional PROFIBUS/MPI optionally onboard, isolated, max. 12 Mbit/s, no plug-in card necessary, CP 5622-compatible USB port 2x USB 3.0, 2x USB 2.0 rear, 1x USB 3.0, 1x USB 2.0 front, 1x USB 3.0 internal Connection for keyboard/mouse 2x PS/2 serial interface COM1: 1x RS 232, COM2 (optional): 1x RS 232 parallel interface optional LPT1 Multimedia | Interfaces | |
| USB port 2x USB 3.0, 2x USB 2.0 rear, 1x USB 3.0, 1x USB 2.0 front, 1x USB 3.0 internal Connection for keyboard/mouse 2x PS/2 serial interface COM1: 1x RS 232, COM2 (optional): 1x RS 232 parallel interface optional LPT1 Multimedia | Interfaces/bus type | PS/2, audio (Microphone In, Line Out), 7x USB, 2x Gigabit Ethernet, |
| internal Connection for keyboard/mouse 2x PS/2 serial interface COM1: 1x RS 232, COM2 (optional): 1x RS 232 parallel interface optional LPT1 Multimedia | PROFIBUS/MPI | |
| serial interface COM1: 1x RS 232, COM2 (optional): 1x RS 232 parallel interface optional LPT1 Multimedia | USB port | |
| parallel interface optional LPT1 Multimedia | Connection for keyboard/mouse | 2x PS/2 |
| Multimedia | serial interface | COM1: 1x RS 232, COM2 (optional): 1x RS 232 |
| | parallel interface | optional LPT1 |
| Audio In/Out Yes | Multimedia | |
| | Audio In/Out | Yes |

| Minnelland | V |
|---|--|
| Microphone In Video interfecce | Yes |
| Video interfaces | On Display Dept. and Ass DVIII. |
| Graphics interface | 2x DisplayPort and 1x DVI-I onboard; 1x VGA via DVI-VGA adapter cable (optional); graphics card PCIe (x16), Dual Head (2x VGA or 2x DVI-D), 1 GB graphics memory (optional) |
| Industrial Ethernet | |
| Industrial Ethernet interface | 2x Ethernet (RJ45) |
| — 100 Mbps | Yes |
| — 1000 Mbps | Yes |
| Integrated Functions | |
| Monitoring functions | |
| Temperature monitoring | Yes |
| Watchdog | Yes |
| Status LEDs | POWER, HDD, ETHERNET 1, ETHERNET 2, PROFIBUS / MPI, SF PROFINET, WATCHDOG, TEMP, FAN, HDD0 ALARM, HDD1 ALARM |
| ● Fan | Yes |
| Monitoring function via network | Optional |
| EMC | |
| Interference immunity against discharge of static electricity | |
| Interference immunity against discharge of static | ±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC |
| electricity | 61000-4-2 |
| Interference immunity against high-frequency electromagnetic field | S |
| Interference immunity against high frequency radiation | 10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6 |
| Interference immunity to cable-borne interference | |
| • Interference immunity on supply cables | ±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric |
| Interference immunity on signal cables >30m | ±2 kV acc. to IEC 61000-4-4, burst; ±2 kV acc. to IEC 61000-4-5, surge |
| Interference immunity on signal cables < 30m | ±1 kV acc. to IEC 61000-4-4, Burst |
| Interference immunity against voltage surge | |
| asymmetric interference | ±2 kV acc. to IEC 61000-4-5, surge asymmetric |
| symmetric interference | ±1 kV acc. to IEC 61000-4-5, surge symmetric |
| Interference immunity to magnetic fields | |
| Interference immunity to magnetic fields at 50 Hz | 100 A/m; to IEC 61000-4-8 |
| Emission of conducted and non-conducted interference | |
| • Interference emission via line/AC current cables | EN 61000-6-3, FCC Class A, EN 61000-6-4, CISPR 22, EN 55022 Class B, EN 61000-3-2 Class D, EN 61000-3-3 |
| Degree and class of protection | |
| IP (at the front) | IP41 |
| IP (rear) | IP20 |
| Standards, approvals, certificates | |
| CE mark | Yes; For use in industrial areas as well as domestic, business and commercial environments (emitted interference: EN 61000-6-3:2007 +A1:2011, noise immunity: EN 61000-6-2:2005) |
| CSA approval | Yes; Included in cULus |
| UL approval | Yes |
| cULus | Yes; UL 60950-1, file number E115352 |
| RCM (formerly C-TICK) | Yes |
| KC approval | Yes |
| EAC (formerly Gost-R) | Yes |
| EMC | CE, EN 61000-6-3:2007 +A1:2011, EN 61000-6-2:2005 |
| | |
| Dust protection Marine approval | With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered |
| Marine approval | Voc. Only with SSD |
| Germanischer Lloyd (GL) American Ruragu of Shinning (ARS) | Yes; Only with SSD |
| American Bureau of Shipping (ABS) Bureau Maritae (BM) | Yes; Only with SSD |
| Bureau Veritas (BV) | Yes; Only with SSD |
| Det Norske Veritas (DNV) | Yes; Only with SSD |
| Lloyds Register of Shipping (LRS) | Yes; Only with SSD |
| Ambient conditions | |
| Ambient temperature during operation | 0.00 |
| • min. | 0 °C |
| • max. | 50 °C |

| Ambient temperature during storage/transportation | |
|--|---|
| • min. | -20 °C |
| • max. | 60 °C |
| Relative humidity | |
| Relative humidity | tested to IEC 60068-78, DIN IEC 68-2-30: 5 % to 80 % at 25 $^{\circ}\text{C}$ (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/s² (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 2 (5 g), 30 ms, 100 shocks per axis |
| Operating systems | |
| pre-installed operating system | Windows 7 Ultimate, multi-language (32-bit/64-bit), Windows 10 Enterprise 2015 LTSB, multi-language (64-bit), Windows 10 Enterprise 2016 LTSB, multi-language (64-bit), Windows Server 2008 R2 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2012 R2 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit) |
| Additional info on operating system | Multi-Language User Interface (MUI): 5 languages (English, German, French, Spanish, Italian) |
| without operating system | Yes |
| Software | |
| SIMATIC Software | Optionally in package with SIMATIC WinCC or WinCC flexible |
| Dimensions | |
| Width | 430 mm |
| Height | 88 mm; 2U |
| Depth | 444 mm |

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