## SIEMENS

Data sheet

## 6AG4112-2GP24-0BX6

Installation type/mounting           Mounting         For horizontal installation; prepared for felescopic rails; 19" mounting bracket can be removed externally           Design         Rack PC, 19", 2U           Supply voltage         100240 V AC (autorange) 50 / 60 Hz; optional redundant 100/240 V AC           Line frequency         • Rated value 50 Hz;           • Rated value 50 Hz;         Yes           • Rated value 50 Hz;         Yes           • Rated value 50 Hz;         Yes           • Mains buffering         20 ms           Processor         Processor           Processor fype         Zeon E3-1268L v3 (4C/81, 2.3 (3.3) GHz, 8 MB cache); Core I3-43301E (2C/41, 2.4 GHz, 4 MB cache); Core I3-43301E (2C/41, 2.4 GHz		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 Core I5-4570TE (2C/4T, 2.7 (3.3) GHz, 4 MB cache, TB, VT-D, AMT); mainboard without fieldbus RAID1, 1 TB (2x 1 TB HDD SATA, mirror disks), in removable frame, hot swap; front-side 4 GB DDR3 SD-RAM (2x 2 GB), Dual channel bus module 4 slots: 2x PCI, 2x PCIE X16; DVD +/-RW (SLIM) without expansion (HW); Graphics onboard Windows 7 Ultimate, 64 bit, MUI (de, en, fr, es, it), SP1 without software 2x 110/240V redund. power supply; without line cable
bracket can be removed externally           Design         Rack PC, 19*, 2U           Supply voltage         100/240 V AC (autorange) 50 / 60 Hz; optional redundant 100/240 V AC           Line frequency         -           • Rated value 50 Hz         Yes           • Rated value 60 Hz         Yes           Mains buffering         -           • Mains/voltage failure stored energy time         20 ms           Processor         -           Processor         -           Processor type         Xeon E3-1268L v3 (AC/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 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 DH302C228 PCH           Graphic         Obtoard graphics controller Intel HD 4800 Graphics integrated into the processor / PCI-Express graphics card (Dual Head: 2x VGA or 2x DVI-D) in the PCIe (x16) slot (optional)           Optical drives         DVD±R/RW (SimLine)           Optical drives         DVD±R/RW (SimLine)           Stot for drives         Mounted internally on the fixed Arad disk support, or mounted at the fixed value for drives bary in real disk support, or mounted at the fixed value for drives bary (not-swap in RAID configurations)           Main memory         2 GB to 32 GB DDR3-f600 DIMM, ECC optional           Capacity of main memory, m	Installation type/mounting	
Supply voltage         100/240 V AC (autorange) 50 / 60 Hz; optional redundant 100/240 V AC           Uhe frequency         • Rated value 50 Hz         Yes           • Rated value 50 Hz         Yes           • Rated value 50 Hz         Yes           • Mains buffering         20 ms           Processor         20 ms           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 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)           Chipset         Intel DH82C226 PCH           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) sld (optional)           Drives         DVD#R/RW (SlimLine)           Optical drives         DVD#R/RW (SlimLine)           Stot for drives         DVD#R/RW (SlimLine)           Stot for drives         Mounted internally on the fixed hard disk support, or mounted internally in vibration/shck-absorbing hard disk support, or mounted inthe front in the low-profile removable drive bay (hot	Mounting	
Type of supply voltage       100/240 V AC (autorange) 50 / 60 Hz; optional redundant 100/240 V AC         Line frequency       • Rated value 60 Hz       Yes         • Rated value 60 Hz       Yes         • Nated value 60 Hz       Yes         • Processor       Zeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB cache); Core I5-4570TE         Processor type       Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB cache); Core I5-4570TE         Chipset       Intel DH82C226 PCH         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) slot (optional)         Drives       DVD+R/RW (SlimLine)         Stot for drives       DVD+R/RW (SlimLine)         Stot 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       2 GB to 32 GB DDR3-1600 DIMM, ECC optional         Capacity of main memory, max.       32 G byte         Hardware configuration       Stot for	Design	Rack PC, 19", 2U
Line frequency       • Rated value 50 Hz         • Rated value 50 Hz       Yes         • Rated value 60 Hz       Yes         Mains buffering       20 ms         Processor       (2CHT, 2.7 (3.3) GHz, 4 MB cache); Core 15.4570TE (2CHT, 2.7 (2.3) GHZ, 4 MB cache); Core 15.4570TE (2CHT, 2.7 (2.4) GHZ, 4 MB (2.5 GHZ, 4 MB (2.5 GHZ, 4 MZ, 4 MB (2.5 GHZ, 4 MZ, 4 MZ	Supply voltage	
Line frequency       • Rated value 50 Hz         • Rated value 50 Hz       Yes         • Rated value 60 Hz       Yes         Mains buffering       20 ms         Processor       (2CHT, 2.7 (3.3) GHz, 4 MB cache); Core 15.4570TE (2CHT, 2.7 (2.3) GHZ, 4 MB cache); Core 15.4570TE (2CHT, 2.7 (2.4) GHZ, 4 MB (2.5 GHZ, 4 MB (2.5 GHZ, 4 MZ, 4 MB (2.5 GHZ, 4 MZ, 4 MZ	Type of supply voltage	100/240 V AC (autorange) 50 / 60 Hz; optional redundant 100/240 V AC
• Rated value 50 Hz       Yes         • Rated value 60 Hz       Yes         Mains buffering       • Mains/voltage failure stored energy time       20 ms         Processor       20 ms         Processor type       (2C4T, 2.7 (3.3) GHz, 4 MB cache); Core i5-4570TE (2C4T, 2.4 GHz, 4 MB cache); Core i3-4330TE (2C4T, 2.4 GHz, 4 GHz, 4 MB cache); Core i3-4330TE (2C4T, 2.4 GHz, 4		
• Rated value 60 Hz         Yes           Mains/buffering         20 ms           Processor         20 ms           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 I3-4330TE (2C/4T, 2.4 GHz, 4 MB cache)           Chipset         Intel DH82C226 PCH           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) slot (optional)           Drives         Optical drives           Optical drives         DVD±R/RW (SlimLine)           For disk         240 GB SSD; RNID1 (2x 1 TB HDD, RAID1 (2x 1 TB HDD, Controller intel Intel memory and disk support, or mounted internally in vibration/shock-absorbing hard disk support, or mounted internally in the low-profile removable drive bay (hot-swap in RAID configurations)           Memory         2 GB to 32 GB DDR3-1600 DIMM, ECC optional 32 Gbyte           Hardware configuration         32 Gbyte           Stot         1 tx COM1 1x COM2 (optional), 1x LPT (optional), 2x DisplayPort, 1x DVH, 2x PS/2x audic (Microphone In, Line OU), 7x USB, 2x Gigabit Ethemet, PROFIBUS or PRO		Yes
Mains buffering       20 ms         Processor       Processor         Processor       Zents         Processor       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 i3-4330TE (2C/4T, 2.4 GHz, 4 MB cache)         Chipset       Intel DH82C226 PCH         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) slot (optional)         Drives       DVD±R/RW (SlimLine)         Optical drives       DVD±R/RW (SlimLine)         SSD       Silot for drives         SSD       Yes; 240 GB SSD; RAID1 (2x 11 TB HDD, RAID1 (2x 1 TB HDD, mirror disks); RAID1 (2x 1 TB HDD XAS, mirror disks) with PCIe (x8) RAID controller incl. ZMCP module         SSD       Yes; 240 GB SSD; RAID1 (2x 240 GB SSD, mirror disks)         Silot for drives       Mounted internally on the fixed hard disk support, or mounted internally in vibration/shock-absorbing hard disk support, or mounted internally in vibration/shock-absorbing hard lisk support, or mounted at the front in the Ibew-profile remexbed fire bay (hot-swap in RAID configurations)         Main memory       2 GB to 32 GB DDR3-1600 DIMM, ECC optional         Capacity of main memory, max.       32 Gbyte         Interfaces       2x PCIe mech. (x16) (4 lanes) or 4x PCIe mech, (x16) (6 lanes); all modules to a length of 312 mm can be used         Interfaces/bus type		
• Mains/voltage failure stored energy time         20 ms           Processor         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 i6-4330TE (2C/4T, 2.4 GHz, 4 MB cache)           Chipset         Intel DH82C226 PCH           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) stot (optional)           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, RAID1 (2x 1 TB HDD, RAID (2x 1 TB HDD		103
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 i3-4330TE (2C/4T, 2.4 GHz, 4 MB cache)           Chipset         Intel DH82C226 PCH           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) stot (optional)           Drives         DVD±R/RW (SlimLine)           Optical drives         DVD±R/RW (SlimLine)           Hard disk         500 GB HDD, 1TB HDD, 2x 1 TB HDD, RAID1 (2x 1 TB HDD, RAID           SSD         Yes; 240 GB SSD; RAID1 (2x 1 TB HDD, RAID1 (2x 1 TB HDD, RAID           SSD         Yes; 240 GB SSD; RAID1 (2x 240 GB SSD, mirror disks) with PCIe (x8) RAID configurations)           Memory         Yes; 240 GB SSD; RAID1 (2x 240 GB SSD, mirror disks)           Main memory         2 GB to 32 GB DDR3-1600 DIMM, ECC optional           22 Gbyte         Yes; 240 GB SSD; RAID 0 100 DIMM, ECC optional           32 Gbyte         Yes (200 Gional) 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 mir can be used           Interfaces         1x COM1, 1x COM2 (optional), 1x LPT (optional), 2x DisplayPort, 1x DVI, 1x PS/2, audio (Microphone In, Line Out), 7x USB, 2x Gigabit Ethermet, PROFIBUS or PROFINET optional           PROFIBUS/MPI         QPFIBUS/MPI         QPFIBUS or PROFINET opt		20 mg
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 i3-4330TE (2C/4T, 2.4 GHz, 4 MB cache)           Chipset         Intel DH82C226 PCH           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) slot (optional)           Drives         Optical drives         DVD±R/RW (SlimLine)           Hard disk         500 GB HDD, 1TB HDD, 2x 1 TB HDD, RAID1 (2x 1 TB HDD, RAID controller incl. ZMCP module         Yes; 240 GB SSD, RAID1 (2x 240 GB SSD, mirror disks)           SSD         Yes; 240 GB SSD, RAID1 (2x 240 GB SSD, mirror disks)         Mounted internally in vibration/shock-absorbing 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         2 GB to 32 GB DDR3-1600 DIMM, ECC optional         Capacity of main memory, max.         32 Gbyte           Hardware configuration         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) (4 lanes), all modules to a length of 312 mm cab 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           Optical         CP 5622-compatible         2x USB 3.0, na, x USB 3.0, nat	0 00	201115
(2C47) 2.7 (3.3) GHz, 4 MB cache); Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB cache)         Chipset       Intel DH82C228 PCH         Graphic       Onboard graphics controller Intel HD 4600 Graphics integrated into the processor / PCI-Express graphics cand [Dual Head: 2x VGA or 2x DVI-D) in the PCIe (x16) slot (optional)         Drivos       Optical drives         Hard disk       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)         Slot for drives       Mounted internally on the fixed hard disk support, or mounted internally in vibration/shock-absorbing hard disk support, or mounted internally on the fixed hard disk support, or mounted internally in vibration/shock-absorbing hard disk support, or mounted internally on the fixed hard disk support, or mounted internally on the fixed hard disk support, or mounted internally on the fixed hard disk support, or mounted internally modured internally on the fixed hard disk support, 1x DVI-1, 2x PS/2, audio (Microphone in, Line Out), 7x USB, 2x Gigabit Ethermet, PROFIBUS or PROFINET optional		
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) slot (optional)           Drives         DVD±R/RW (SlimLine)           Brand disk         500 GB HDD, 1 TB HDD, 2x 1 TB HDD, RAID1 (2x 1 TB HDD, mirror disks); RAID1 (2x 1 TB HDD, 2x 1 TB HDD, RAID1 (2x 1 TB HDD, and D) (2x 1 TB HDD, RAID1 (2x 1 TB HDD, CM))           SSD         Ves; 240 GB SSD; RAID1 (2x 240 GB SSD, mirror disks)           Slot for drives         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         2 GB to 32 GB DDR3-1600 DIMM, ECC optional           Graphic         32 Gbyte           Hardware configuration         32 Gbyte           Interfaces         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	Processor type	(2C/4T, 2.7 (3.3) GHz, 4 MB cache); Core i3-4330TE (2C/4T, 2.4 GHz,
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) slot (optional)           Drives         DVD±R/RW (SlimLine)           Hard disk         500 GB HDD, 1 TB HDD, X1 TB HDD, RAID1 (2x 1 TB HDD, 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         2 GB to 32 GB DDR3-1600 DIMM, ECC optional           Gapacity 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/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 Ethremet, 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	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 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         2 GB to 32 GB DDR3-1600 DIMM, ECC optional           Capacity of main memory, max.         32 Gbyte           Hardware configuration         Slots           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-1, 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 internal	Graphic	
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 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         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) (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 DV-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 3.0, 2x USB 3.0, 1x USB 2.0 front, 1x USB 3.0, internal	Graphics controller	processor / PCI-Express graphics card (Dual Head: 2x VGA or 2x DVI-
Hard disk       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)         Slot for drives       Mounted internally on the fixed hard disk support, or mounted internally in vibration/shock-absorbing 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       2 GB to 32 GB DDR3-1600 DIMM, ECC optional         Capacity of main memory, max.       32 Gbyte         Hardware configuration       Slots         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       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 PS/2	Drives	
Hard disk       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)         Slot for drives       Mounted internally on the fixed hard disk support, or mounted internally in vibration/shock-absorbing 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       2 GB to 32 GB DDR3-1600 DIMM, ECC optional         Capacity of main memory, max.       32 Gbyte         Hardware configuration       Slots         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       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 PS/2	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       2 GB to 32 GB DDR3-1600 DIMM, ECC optional         Capacity of main memory, max.       32 Gbyte         Hardware configuration       32 Gbyte         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       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         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	Hard disk	disks); RAID1 (2x 1 TB HDD SAS, mirror disks) with PCIe (x8) RAID
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       2 GB to 32 GB DDR3-1600 DIMM, ECC optional         Capacity of main memory, max.       32 Gbyte         Hardware configuration       32 Gbyte         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       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 PROFIBUS or PROFIBUS or PROFIBUS, 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	SSD	Yes; 240 GB SSD; RAID1 (2x 240 GB SSD, mirror disks)
Main memory       2 GB to 32 GB DDR3-1600 DIMM, ECC optional         Capacity of main memory, max.       32 Gbyte         Hardware configuration       32 Gbyte         Slots       2 x 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       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		in vibration/shock-absorbing hard disk support, or mounted at the front
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         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	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         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	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	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 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	Hardware configuration	
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	Slots	
Interfaces/bus type1x 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 optionally onboard, isolated, max. 12 Mbit/s, no plug-in card necessary, CP 5622-compatibleUSB port2x USB 3.0, 2x USB 2.0 rear, 1x USB 3.0, 1x USB 2.0 front, 1x USB 3.0 internalConnection for keyboard/mouse2x PS/2	<ul> <li>free slots</li> </ul>	depending on slot) or 2x PCI, 2x PCIe mech. (x16) (8 lanes); all
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	Interfaces	
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         Connection for keyboard/mouse       2x PS/2	Interfaces/bus type	DVI-I, 2x PS/2, audio (Microphone In, Line Out), 7x USB, 2x Gigabit
internal       Connection for keyboard/mouse       2x PS/2	PROFIBUS/MPI	
	USB port	
serial interface COM1: 1x RS 232, COM2 (optional): 1x RS 232	Connection for keyboard/mouse	2x PS/2
	serial interface	COM1: 1x RS 232, COM2 (optional): 1x RS 232

parallel interface	optional LPT1
Multimedia	
Audio In/Out	Yes
Microphone In	Yes
Video interfaces	
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	
<ul> <li>Industrial Ethernet interface</li> </ul>	2x Ethernet (RJ45)
— 100 Mbps	Yes
— 1000 Mbps	Yes
Integrated Functions	
Monitoring functions	
<ul> <li>Temperature monitoring</li> </ul>	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 electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagneti	
<ul> <li>Interference immunity against high frequency radiation</li> </ul>	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
<ul> <li>Interference immunity on signal cables &gt;30m</li> <li>Interference immunity on signal cables &lt; 30m</li> </ul>	±2 kV acc. to IEC 61000-4-4, burst; ±2 kV acc. to IEC 61000-4-5, surge ±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	
<ul> <li>Interference immunity to magnetic fields at 50 Hz</li> </ul>	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	With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered
Marine approval	
Germanischer Lloyd (GL)	Yes; Only with SSD
American Bureau of Shipping (ABS)	Yes; Only with SSD
Bureau Veritas (BV)	Yes; Only with SSD
Det Norske Veritas (DNV)	Yes; Only with SSD

<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	Yes; Only with SSD
Ambient conditions	
Ambient temperature during operation	
<ul> <li>Ambient temperature during operation</li> </ul>	0 50 °C no ODD operation, no HDD operation in swap frame, no hardware RAID controller; 0 45 °C no ODD operation, no hardware RAID controller, power loss of expansion cards in total < 55 W; 0 40 °C no hardware RAID controller, power loss of the expansion cards in total < 55 W; 0 35 °C no restrictions
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	
<ul> <li>Vibration resistance during operation acc. to IEC 60068-2-6</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)
Shock testing	
<ul> <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
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
last modified	6/25/2021

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