SIEMENS

Data sheet 6AG4114-2KJ20-0AX6

SIMATIC IPC847D (Rack PC) (Rack PC, 19", 4HU); 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 4 GB DDR3 SD-RAM (2x 2 GB), Dual channel Bus module 11 slots: 7X PCI, 3x PCIE X4, 1x PCIE X16; without hardware expansions without expansion (HW); Graphics onboard Windows 7 Ultimate, 32 bit, MUI (de, en, fr, es, it), SP1 without software 2x 110/240V redund. power supply; without line cable

Mounting For horizontal and vertical installation; prepared for telescopic rails; 19" mounting bracket can be removed externally; tower kit (optional) Design Rack PC, 19", 4U Supply voltage 100/240 V AC (autorange) 50 / 60 Hz; optional redundant 100/240 V AC; optional 100/240 V AC with UPS functionality incl. maintenance-free lead-lin battery Line frequency • Rated value 50 Hz Yes • Rated value 60 Hz Yes • Mains buffering • Mains/voltage failure stored energy time Processor Processor type 2 Xeon E3-1275 v3 (4C/8T, 3.5 (3.9) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 4 MB cache); Core i6-4570TE (2C/4T, 2.7 (3.3) GHz, 4 MB cache); Core i6-4570TE (2C/4T, 2.7 (3.3) GHz, 4 MB cache); Core i6-4570TE (2C/4T, 2.4 GHz, 4 MB cache); Intel DH82C226 PCH Chipset Intel DH82C226 PCH Onboard graphics controller Intel HD 4600 Graphics integrated into the processor / PC/E-spress graphics card (Dual Head: 2x VGA or 2x DVI-D) in the PCIe (x16) slot (optional) Drives Optical drives DVD4R/RW (SlimLine) Processor BAD SAS, miror disks, RAID1 (2x 1 TB HDD, miror disks) + 1x 1 TB HDD a hot spare, RAID1 (2x 1 TB HDD, shipping with parity) + 1x 1 TB HDD a short spare, RAID1 (3x 1 TB HDD, shipping with parity) + 1x 1 TB HDD a short spare, RAID1 (3x 1 TB HDD shipping with parity) + 1x 1 TB HDD SAS, short official (2x 1 TB HDD SAS, shipping with parity) + 1x 1 TB HDD SAS as hot spare in LPC (ex R) RAID SAS controller in Cl.	Installation type/mounting	
Type of supply voltage Type of supply voltage 100/240 V AC (autorange) 50 / 60 Hz; optional redundant 100/240 V AC; optional 100/240 V AC with UPS functionality incl. maintenance-free lead-lin battery Line frequency Rated value 50 Hz Rated value 60 Hz Rated value 60 Hz Yes Mains buffering Mains buffering Mains buffering Mains/voltage failure stored energy time Processor Processor type Xeon E3-1275 v3 (4C/8T, 3.5 (3.9) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.4 MB cache); Xeon E3-1268L v3 (4C/8T, 2.5 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.5 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.5 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.5 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.5 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.5 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.5 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.5 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.5 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.5 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.5 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.5 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.5 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.4 GHz, 4 MB cache); Xeon E3-1268L v3 (4C/8T, 2.5 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.5 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.5 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.5 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.5 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.5 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.5 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.5 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.5 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.5 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T,	Mounting	
Type of supply voltage 100/240 V AC (autorange) 50 / 60 Hz. optional redundant 100/240 V AC; optional 100/240 V AC; optional 100/240 V AC with UPS functionality incl. maintenance-free lead-lin battery • Rated value 50 Hz • Rated value 60 Hz Yes Mains buffering • Mains/voltage failure stored energy time Processor Processor type Xeon E3-1275 v3 (4C/8T, 3.5 (3.9) GHz, 8 MB cache); 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 I5-4570TE (2C/4T, 2.4 GHz, 4 MB cache) Intel DH82C226 PCH Graphic 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) Drivos Optical drives DVD±R/RW (SlimLine) Hard disk DVD±R/RW (SlimLine) Fig. 3 + TB HDD, RAID1 (2x 1 TB HDD, mirror disks), RAID5 (3x 1 TB HDD, SAS, striping with parity),	Design	Rack PC, 19", 4U
Ac; optional 100/240 V AC with UPS functionality incl. maintenance-free lead-tin battery Line frequency Rated value 50 Hz Rated value 60	Supply voltage	
Rated value 50 Hz Rated value 60 Hz Rated value 50 Hz Rated value 60 Hz Rated value	Type of supply voltage	AC; optional 100/240 V AC with UPS functionality incl. maintenance-free
● Rated value 60 Hz Yes Mains buffering • Mains/voltage failure stored energy time 20 ms Processor Processor type Xeon E3-1275 v3 (4C/8T, 3.5 (3.9) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 4 MB cache); Core i5-4870TE (2C/4T, 2.7 (3.3) GHz, 4 MB cache); Core i6-4870TE (2C/4T, 2.7 Graphics controller Chipset Intel DH82C226 PCH Graphic Onboard graphics controller Intel HD 4600 Graphics integrated into the processor / PC/I-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, striping with parity), FAID5 (3x 1 TB HDD) as hot spare, RAID1 (2x 1 TB HDD, striping with parity) + 1x 1 TB HDD as hot spare, RAID1 (2x 1 TB HDD, SAS, striping with parity)), FAID5 (3x 1 TB HDD SAS, striping with parity) + 1x 1 TB HDD SAS as hot spare incl. PCIe (x8) RAID SAS controller incl. ZMCP module SSD Yes; 240 GB SSD; RAID1 (2x 24 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) Memory Main memory 2 GB to 32 GB DDR3-1600 DIMM, ECC optional Capacity of main memory, max. 32 Gbyte	Line frequency	
Mains buffering Mains/voltage failure stored energy time Processor Processor type Xeon E3-1275 v3 (4C/8T, 3.5 (3.9) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB cache); Core i6-4570TE (2C/4T, 2.7 (3.3) GHz, 4 MB cache); Core i6-4570TE (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 Graphic 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 Optical drives DVD±R/RW (SlimLine) All 1 (2x 1 TB HDD, RAID1 (2x 1 TB HDD, mirror disks) + 1x 1 TB HDD as hot spare, RAID5 (3x 1 TB HDD, striping with parity), RAID5 (3x 1 TB HDD, striping with parity), RAID5 (3x 1 TB HDD, SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity), raid (2x 1 TB HDD SAS, striping with parity), raid (2x 1 TB HDD SAS, striping with parity), raid (2x 1 TB HDD SAS, striping with parity), raid (2x 1 TB HDD SAS, striping with parity), raid (2x 1 TB HDD SAS, striping with parity), raid (2x 1 TB HDD SAS, striping with parity), raid (2x 1 TB HDD SAS, striping with parity), raid (2x 1 TB HDD SAS, striping with parity), raid (2x 1 TB HDD SAS, striping with parity), raid (2x 1 TB HDD SAS, striping with parity), raid (2x 1 TB HDD SAS, striping with parity), raid (2x 1 TB HDD SAS, striping with parity), raid (2x 1 TB HDD SAS, striping with parity), raid (2x 1 TB HDD SAS, striping with parity), raid (2x 1 TB HDD SAS, striping with parity), raid (2x 1 TB HDD SAS, striping with parity), raid (2x 1 TB HDD SAS, striping with parity),	Rated value 50 Hz	Yes
• Mains/voltage failure stored energy time Processor Processor type Xeon E3-1275 v3 (4C/8T, 3.5 (3.9) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.3 (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 DH82C226 PCH Graphic Graphics controller Onboard graphics controller Intel HD 4600 Graphics integrated into the processor / PC/I-Express graphics card (Dual Head: 2x VGA or 2x DVI-D) in the PCle (x16) slot (optional) Drives Optical 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, striping with parity), RAID5 (3x 1 TB HDD, striping with parity) hard (2x 1 TB HDD, striping with parity), RAID5 (3x 1 TB HDD, SAS, striping with parity), RAID5 (3x 1 TB HDD, S	Rated value 60 Hz	Yes
Processor type Xeon E3-1275 v3 (4C/8T, 3.5 (3.9) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB cache); 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) Craphic Graphic 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 Optical drives DVD±R/RW (SlimLine) DVD±R/RW (SlimLine) BYD±R/RW (SlimLine) DVD±R/RW (SlimLine) DVD±R/RW (SlimLine) BYD±R/RW (SlimLine) DVD±R/RW (SlimLine) BYD±R/RW (SlimLine) DVD±R/RW (SlimLine) AND (3x 1 TB HDD, x1 TB HDD, RAID1 (2x 1 TB HDD, mirror disks), RAID1 (2x 1 TB HDD, striping with parity), RAID5 (3x 1 TB HDD, striping with parity), RAID5 (3x 1 TB HDD, striping with parity) + 1x 1 TB HDD as hot spare, RAID5 (3x 1 TB HDD, SAS, mirror disks), RAID6 (3x 1 TB HDD SAS, striping with parity) + 1x 1 TB HDD SAS, as hot spare incl. PCIe (x8) RAID5 (3x 1 TB HDD SAS, striping with parity) + 1x 1 TB HDD SAS, as hot spare incl. PCIe (x8) RAID5 (3x 1 TB HDD SAS, as hot spare incl. PCIe (x8) RAID5 (3x 1 TB HDD SAS, as hot spare incl. PCIe (x8) RAID5 (3x 1 TB HDD SAS, as hot spare incl. PCIe (x8) RAID5 (3x 1 TB HDD SAS, as hot spare incl. PCIe (x8) RAID5 (3x 1 TB HDD SAS, as hot spare incl. PCIe (x8) RAID5 (3x 1 TB HDD SAS, as hot spare incl. PCIe (x8) RAID5 (3x 1 TB HDD SAS, as hot spare incl. PCIe (x8) RAID5 (3x 1 TB HDD SAS, as hot spare incl. PCIe (x8) RAID5 (3x 1 TB HDD SAS, as hot spare incl. PCIe (x8) RAID5 (3x 1 TB HDD SAS, as hot spare incl. PCIe (x8) RAID5 (3x 1 TB HDD SAS, as hot spare incl. PCIe (x8) RAID5 (3x 1 TB HDD SAS, as hot spare incl. PCIe (x8) RAID5 (3x 1 TB HDD SAS, as hot spare incl. PCIe (x8) RAID5 (3x 1 TB HDD SAS, as hot spare incl. PCIe (x8) RAID5 (3x 1 TB HDD SAS, as hot spare incl. PCIe (x8) RAID5 (3x 1 TB HDD SAS, as hot spare incl. PCIe (x8)	Mains buffering	
Processor type Xeon E3-1275 v3 (4C/8T, 3.5 (3.9) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB cache); Core i5-4570TE (2C/4T, 2.7 (3.3) GHz, 6 MB cache); Core i5-4570TE (2C/4T, 2.7 Gashe); Graphic Graphic Graphic 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 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), a trip ging mirror disks), RAID5 (3x 1 TB HDD), striping mirror disks), RAID5 (3x 1 TB HDD), SAS, mirror disks), RAID5 (3x 1 TB HDD as hot spare; RAID1 (2x 1 TB HDD SAS, striping with parity), PAID5 (3x 1 TB HDD SAS, striping with parity), PAID5 (3x 1 TB HDD SAS, striping with parity), PAID5 (3x 1 TB HDD SAS, striping with parity), PAID5 (3x 1 TB HDD SAS, SAS) SSD Yes; 240 GB SSD; RAID1 (2x 24 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. 11 slots: 7x PCI, 3x PCIe (x4) (1 lane), 1x PCIe (x16) or 3x PCI, 5x PCIe mech. (x16) (4x 4 lanes, 1x 8 lanes), 3x PCIe (x4); 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-1, 2x PS/2, audio (Microphone In, Line Out), 7x USB, 2x Gigabit Ethernet, PROFIBUS or PROFINET optional	 Mains/voltage failure stored energy time 	20 ms
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 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 PCle (x16) slot (optional) Drives Optical drives DVD±R/RW (SlimLine) Pard disk 500 GB HDD, 1 TB HDD, 2x 1 TB HDD, RAID1 (2x 1 TB HDD, mirror disks), RAID1 (2x 1 TB HDD, mirror disks) + 1x 1 TB HDD as hot spare, RAID5 (3x 1 TB HDD, striping with parity), RAID5 (3x 1 TB HDD), striping with parity), PAID5 (3x 1 TB HDD), striping with parity) + 1x 1 TB HDD ASA, striping with parity) + 1x 1 TB HDD ASA striping with parity), Parity + 1x 1 TB HDD ASA striping with	Processor	
Graphic Graphics controller 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 Optical drives DVD±R/RW (SlimLine) Hard disk DVD±R/RW (SlimLine) S00 GB HDD, 1 TB HDD, 2x 1 TB HDD, RAID1 (2x 1 TB HDD, mirror disks) + 1x 1 TB HDD as hot spare, RAID5 (3x 1 TB HDD, striping with parity), RAID5 (3x 1 TB HDD, striping with parity), RAID5 (3x 1 TB HDD, striping with parity), RAID5 (3x 1 TB HDD sAS, striping with parity) + 1x 1 TB HDD sAS, striping with parity), RAID5 (3x 1 TB HDD sAS, striping with parity) + 1x 1 TB HDD sAS, as hot spare; RAID1 (2x 1 TB HDD sAS, striping with parity) + 1x 1 TB HDD sAS, as hot spare incl. PCIe (x8) RAID5 (3x 1 TB HDD sAS, striping with parity) + 1x 1 TB HDD sAS, as hot spare incl. PCIe (x8) RAID5 (3x 1 TB HDD sAS, striping with parity) + 1x 1 TB HDD sAS, as hot spare incl. PCIe (x8) RAID5 (3x 1 TB HDD sAS, striping with parity) + 1x 1 TB HDD sAS, as hot spare incl. PCIe (x8) RAID5 (3x 1 TB HDD sAS, striping with parity) + 1x 1 TB HDD sAS, as hot spare; RAID1 (2x 1 TB HDD sAS, striping with parity) + 1x 1 TB HDD sAS, as hot spare; RAID1 (2x 1 TB HDD sAS, striping with parity) + 1x 1 TB HDD sAS, as hot spare incl. PCIe (x8) RAID5 (3x 1 TB HDD sAS, striping with parity) + 1x 1 TB HDD sAS, striping with parity) + 1x 1 TB HDD sAS, striping with parity) + 1x 1 TB HDD sAS, striping with parity) + 1x 1 TB HDD sAS, striping with parity) + 1x 1 TB HDD sAS, striping with parity) + 1x 1 TB HDD sAS, striping with parity) + 1x 1 TB HDD sAS, striping with parity) + 1x 1 TB HDD sAS, striping with parity) + 1x 1 TB HDD sAS, striping with parity) + 1x 1 TB HDD sAS, striping with parity) + 1x 1 TB HDD sAS, striping with parity) + 1x 1 TB HDD sAS, striping with parity) + 1x 1 TB HDD sAS, striping with parity, had stripin	Processor type	v3 (4C/8T, 2.3 (3.3) GHz, 8 MB cache); Core i5-4570TE (2C/4T, 2.7
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 DRAID 1(2x 1 TB HDD, RAID 1(2x 1 TB HDD, mirror disks) + 1x 1 TB HDD shot spare; RAID 1(2x 1 TB HDD, striping with parity), PAID 5(3x 1 TB HDD, SAS, striping with parity) + 1x 1 TB HDD SAS, striping with parity) + 1x 1 TB HDD SAS, shot spare; RAID 1(2x 1 TB HDD, SAS, striping with parity) + 1x 1 TB HDD SAS, striping with parity) + 1x 1 TB HDD SAS, striping with parity) + 1x 1 TB HDD SAS, striping with parity) + 1x 1 TB HDD SAS, striping with parity) + 1x 1 TB HDD SAS, striping with parity) + 1x 1 TB HDD, RAID 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	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 DVD±R/RW (SlimLine) 500 GB HDD, 1 TB HDD, 2x 1 TB HDD, RAID1 (2x 1 TB HDD, mirror disks), RAID1 (2x 1 TB HDD, as hot spare, RAID5 (3x 1 TB HDD, striping with parity), RAID5 (3x 1 TB HDD as hot spare; RAID1 (2x 1 TB HDD SAS, striping with parity) + 1x 1 TB HDD as hot spare; RAID1 (2x 1 TB HDD SAS, striping with parity) + 1x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity) + 1x 1 TB HDD SAS as hot spare incl. PCIe (x8) RAID SAS 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. 32 Gbyte Hardware configuration Slots • free slots 11 slots: 7x PCI, 3x PCIe (x4) (1 lane), 1x PCIe (x16) or 3x PCI, 5x PCIe mech. (x16) (4x 4 lanes, 1x 8 lanes), 3x PCIe (x4); 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	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 (3x 1 TB HDD, mirror disks), RAID1 (3x 1 TB HDD, striping with parity), RAID5 (3x 1 TB HDD, Striping with parity), RAID5 (3x 1 TB HDD, SAS, striping with parity), RAID5 (3x 1 TB HDD, SAS, mirror disks), RAID5 (3x 1 TB HDD, SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity), PAS, Striping with pari	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, mirror disks), RAID5 (3x 1 TB HDD, as hot spare, RAID5 (3x 1 TB HDD, striping with parity), RAID5 (3x 1 TB HDD, SAS, mirror disks), RAID5 (3x 1 TB HDD SAS, striping with parity) + 1x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping	Drives	
disks), RAID1 (2x 1 TB HDD, mirror disks) + 1x 1 TB HDD as hot spare, RAID5 (3x 1 TB HDD, striping with parity), RAID5 (3x 1 TB HDD, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity) + 1x 1 TB HDD SAS, striping with parity) + 1x 1 TB HDD SAS, striping with parity) + 1x 1 TB HDD SAS, striping with parity) + 1x 1 TB HDD SAS as hot spare incl. PCIe (x8) RAID SAS 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 11 slots: 7x PCI, 3x PCIe (x4) (1 lane), 1x PCIe (x16) or 3x PCI, 5x PCIe mech. (x16) (4x 4 lanes, 1x 8 lanes), 3x PCIe (x4); 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	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 11 slots: 7x PCI, 3x PCIe (x4) (1 lane), 1x PCIe (x16) or 3x PCI, 5x PCIe mech. (x16) (4x 4 lanes, 1x 8 lanes), 3x PCIe (x4); 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	Hard disk	disks), RAID1 (2x 1 TB HDD, mirror disks) + 1x 1 TB HDD as hot spare, RAID5 (3x 1 TB HDD, striping with parity), RAID5 (3x 1 TB HDD, striping with parity) + 1x 1 TB HDD as hot spare; RAID1 (2x 1 TB HDD SAS, mirror disks), RAID5 (3x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity) + 1x 1 TB HDD SAS as
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 11 slots: 7x PCI, 3x PCIe (x4) (1 lane), 1x PCIe (x16) or 3x PCI, 5x PCIe mech. (x16) (4x 4 lanes, 1x 8 lanes), 3x PCIe (x4); 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	SSD	Yes; 240 GB SSD; RAID1 (2x 240 GB SSD, mirror disks)
Main memory Capacity of main memory, max. Blots It slots: 7x PCI, 3x PCIe (x4) (1 lane), 1x PCIe (x16) or 3x PCI, 5x PCIe mech. (x16) (4x 4 lanes, 1x 8 lanes), 3x PCIe (x4); 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	Slot for drives	in vibration/shock-absorbing hard disk support, or mounted at the front
Capacity of main memory, max. Hardware configuration Slots ● free slots 11 slots: 7x PCI, 3x PCIe (x4) (1 lane), 1x PCIe (x16) or 3x PCI, 5x PCIe mech. (x16) (4x 4 lanes, 1x 8 lanes), 3x PCIe (x4); 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	Memory	
Hardware configuration Slots ● free slots 11 slots: 7x PCI, 3x PCIe (x4) (1 lane), 1x PCIe (x16) or 3x PCI, 5x PCIe mech. (x16) (4x 4 lanes, 1x 8 lanes), 3x PCIe (x4); 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	Main memory	2 GB to 32 GB DDR3-1600 DIMM, ECC optional
Slots ● free slots 11 slots: 7x PCI, 3x PCIe (x4) (1 lane), 1x PCIe (x16) or 3x PCI, 5x PCIe mech. (x16) (4x 4 lanes, 1x 8 lanes), 3x PCIe (x4); 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	Capacity of main memory, max.	32 Gbyte
● free slots 11 slots: 7x PCI, 3x PCIe (x4) (1 lane), 1x PCIe (x16) or 3x PCI, 5x PCIe mech. (x16) (4x 4 lanes, 1x 8 lanes), 3x PCIe (x4); 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	Hardware configuration	
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	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	• free slots	mech. (x16) (4x 4 lanes, 1x 8 lanes), 3x PCle (x4); all modules to a
DVI-I, 2x PS/2, audio (Microphone In, Line Out), 7x USB, 2x Gigabit Ethernet, PROFIBUS or PROFINET optional	Interfaces	
PROFIBUS/MPI optionally onboard, isolated, max. 12 Mbit/s, no plug-in card necessary,	Interfaces/bus type	DVI-I, 2x PS/2, audio (Microphone In, Line Out), 7x USB, 2x Gigabit
	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	
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	
 Industrial Ethernet interface 	2x Ethernet (RJ45)
— 100 Mbps	Yes
— 1000 Mbps	Yes
Integrated Functions	
Monitoring functions	
Temperature monitoring	Yes
 Watchdog 	Yes
Status LEDs	POWER, ETHERNET 1, ETHERNET 2, PN MPI / DP, WATCHDOG, TEMP, FAN, HDD0 ALARM, HDD1 ALARM, HDD2 ALARM, HDD HDD3 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 electromagnet	
 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	With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered

Ambient conditions	
Ambient temperature during operation	
Ambient temperature during operation	0 °C to +45 °C, no burner operation, 0 °C to +50 °C, no operation of optical drive, power dissipation of the expansion cards in total < 30 W, maximum 3 removable drive bays, 0 °C to +40 °C with AC UPS, 0 °C to +35 °C with hardware RAID controller
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Relative humidity	
Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5% to 80% at 25 °C (no condensation), Storage: 5% to 95% at 25 °C (no condensation)
Vibrations	
 Vibration resistance during operation acc. to IEC 60068-2-6 	tested according to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: $4.9~\text{m/s}^2$ (0.5 g)
Shock testing	
Shock load during operation	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s² (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	177 mm; 4U
Depth	444 mm
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