SIEMENS

Data sheet 6AG4112-2JB30-0BX3

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 with PROFINET (3x RJ45, CP 1616-compatible) 1 TB HDD SATA, internal 0.5 G vibration, 5 G shock 8 GB DDR3 SD-RAM (2x 4 GB), Dual channel Bus module, 2 slots: 2x PCIE X16; without HW expansions without expansion (HW); Graphics onboard Windows 7 Ultimate, 64 bit, MUI (de, en, fr, es, it), SP1 without software 110/240V industrial power supply unit; with NAMUR, Power supply cable USA

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 dayending on slot or 2x PC/L 2x 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 Out), 7x USB, 2x Gigabit Ethernet, PROFIBUS/MPI Optionally onboard, isolated, max. 12 Mbif/s, no plug-in card necessary, CP 5522-compatible 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 Commettion for keyboard/mouse 2x PS/2 Serial interface Optional LPT1	 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 DDR3-1600 DIMM, ECC optional 3 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 i	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 pROFIBUS/MPI optionally onboard, isolated, max. 12 Mbit/s, no plug-in card necessary, CP 5622-compatible 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 USB port 2 GB 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 fields		
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	

 min. max. 60 °C Relative humidity Relative humidity tested to IEC 60068-78, DIN IEC 68-2-30: 5 % to 80 % at 25 °C (no condensation) Vibrations Vibration resistance during operation acc. to IEC 60068-2-6 Shock testing Shock load during operation 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) Operating systems 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 Windows 7 Ultimate, multi-language (32-bit/64-bit), Windows 10 Enterprise 2015 LTSB, multi-language (64-bit), Windows Server 2016 RZ Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2012 RZ Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit) 	Ambient temperature during storage/transportation	
Relative humidity Easted 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) Relative humidity Present 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) Relative humidity Relative humidity Present 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) Relative humidity Present 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) Relative humidity Present 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) Relative humidity Present according to IEC 60068-2-6: 10 cycles, 10 Hz to 58 Hz: 0.0375 mm, 58 Hz: 0.0375 mm, 58 Hz: 0.0375 mm, 58 Hz: 0.0375 mm, 58 Hz: 0.5 g) Relative humidity Present according to IEC 60068-2-6: 10 cycles, 10 Hz to 58 Hz: 0.0375 mm, 58 Hz:	• min.	-20 °C
Relative humidity tested to IEC 60068-78, DIN IEC 68-2-30: 5 % to 80 % at 25 °C (no condensation) Vibrations Vibration resistance during operation acc. to IEC 60068-2-6 1 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/s² (5 g), 30 ms, 100 shocks per axis Operating systems Windows 7 Ultimate, multi-language (32-bit/64-bit), Windows 10 Enterprise 2015 LTSB, multi-language (64-bit), Windows Server 2008 R2 Standard Edition incl. 5 clients, multi-language (64-bit), Windows Server 2016 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	• max.	60 °C
Vibrations • Vibration resistance during operation acc. to IEC 60068-2-6 2-6 Shock testing • Shock load during operation 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) 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 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); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl	Relative humidity	
Vibration resistance during operation acc. to IEC 60068- 2-6 Shock testing	Relative humidity	
2-6 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 8 erver 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), Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit), Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit), Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit), Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit), Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit), Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit), Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit), Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit), Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit), Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit), Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit), Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit), Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit), Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit), Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit), Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit), Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit), Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit), Windows Server 2016 Standard Edition incl. 5 clients, multi-lan	Vibrations	
● 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 Optionally in package with SIMATIC WinCC or WinCC flexible Dimensions Width 430 mm Height 88 mm; 2U		
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); 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	Shock testing	
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); 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	Shock load during operation	
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); 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	Operating systems	
Spanish, Italian) without operating system Software SIMATIC Software Optionally in package with SIMATIC WinCC or WinCC flexible Dimensions Width 430 mm Height 88 mm; 2U	pre-installed operating system	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
Software SIMATIC Software Optionally in package with SIMATIC WinCC or WinCC flexible Dimensions Width 430 mm Height 88 mm; 2U	Additional info on operating system	
SIMATIC Software Optionally in package with SIMATIC WinCC or WinCC flexible Dimensions Width 430 mm Height 88 mm; 2U	without operating system	Yes
Dimensions Width 430 mm Height 88 mm; 2U	Software	
Width 430 mm Height 88 mm; 2U	SIMATIC Software	Optionally in package with SIMATIC WinCC or WinCC flexible
Height 88 mm; 2U	Dimensions	
	Width	430 mm
Depth 444 mm	Height	88 mm; 2U
	Depth	444 mm