SIEMENS

Data sheet

6AG4131-3GC24-8AA0

SIMATIC IPC627E (Box PC), UHD Graphics onboard; DP/DVI-D; 3x Gigbit Ethernet (IE/PN); 6x USB V3.1 Gen.2; 1x serial (COM 1); RAID controller onboard; Watchdog, temperature and fan monitoring; Core i7-8700 (6C/12T, 3.2(4.6) GHz, 12 MB cache, VT-d, AMT); SSD 2.5" SATA 480 GB internal; 16 GB DDR4-2666 (2x8); 110/230 V AC industrial power supply unit with NAMUR; Power supply cable China; Without operating system; without expansion (software); without expansion (HW); 2x PCI

Installation typoIncurring Design Design Design Design Box PC, built-in unit Supply voltage Upped Supply voltage Interlequency Fige of Supply Voltage Fige of Supply Fige of Supply Fige of Supply Fige of Fige of Supply Fige of menory Fig		(HW); 2X PCI
Design Box PC, bulk-in unit Supply voltage 100/240 VAC (audorange); 24 V DC Line frequency • Raid value 50 hz • Raid value 50 hz Yes • Raid value 50 hz Yes • Mains buffering • Other Stand value 50 hz • Mains buffering 20 ms Processor • Other Stand value 50 hz Processor Celeron G4000 (2C2T, 3.1 GHz, 2 MB cache, VT-d); Core (3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d); Core (7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core (7-8700 (6C/12 MZ); GHZ, 12 MB cache, VT-d); Core (7-8700 (6C/12 MZ);	Installation type/mounting	
Supply voltage 100/240 V AC (autorange); 24 V DC Type of supply voltage 100/240 V AC (autorange); 24 V DC Inter frequency * • Rated value 50 Hz Yes • Mains buttening * • Mains buttening * • Processor Caleron G4900 (2C/27, 3, 1 GHz, 2 MB cache; VT-0; Core I3-8100 (4C/47, 3, 6 GHz, 12 MB cache; VT-0; Core I3-8100 (4C/47, 3, 6 GHz, 12 MB cache; VT-0; AMT) • Chipsed Caleron G4900 (2C/27, 3, 1 GHz, 2 MB cache; VT-0; Core I3-8100 (4C/47, 3, 6 GHz, 12 MB cache; VT-0; AMT) • Chipsed Intel UHD Graphics 830 (Core I7-8700 (6C/127, 32 (4.6) GHz, 12 MB cache; VT-0; AMT) • Trapped Intel UHD Graphics 830 (Core I): Intel UHD Graphics 610 (Celeron) • Trapped Intel UHD Graphics 830 (Core I): Intel UHD Graphics 610 (Celeron) • Trapped 2.8" SATA 440 1980 GB in removable dires bay • SBD 2.9" SATA 440 1980 GB in removable dires bay • SBD 2.9" SATA 440 1980 GB in removable dires bay • Type of memory DPR+2666 DIMM • Mamory 4 / 8 / 16 / 32 / 64 GB • Capacity of main memory, max. 512 kbyte; 128 KB can be stored in the buffer time • Taraware configuration 512 kbyte; 128 KB can be stored in the buffer time	Mounting	Wall mounting, portrait mounting
Type of supply voltage 100/240 V AC (autorange): 24 V DC Line frequency • • Rated value 50 Hz Yes • Rated value 50 Hz Yes • Mains builfering 20 ms Processor Coleron G4900 (2C/2T, 3.1 GHz, 2 MB cache, VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d); Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d, AUT) Chipest Intel UHD Graphics 630 (Core I); Intel UHD Graphics 610 (Celeron) Orives Intel OHD Graphics 630 (Core I); Intel UHD Graphics 610 (Celeron) Processor Yes; SSD M2 SY SATA 480 / 960 GB in removable drive bay Memory 2.5° SATA 480 / 960 GB in removable drive bay Type of memory DDR4-2660 DIMM Mariner 4 / 8 / 16 / 32 / 64 GB Capacity of main memory, max. 64 Gbyte Data areas and thoir retorothy max. 512 kbyte; 128 KB can be st	Design	Box PC, built-in unit
Line frequency Rated value 50 Hz Rated value 60 Hz Yes Mains buffering Mains voltage failure stored energy time 20 ms Processor Processor type Celeron G4000 (2C/2T, 3.1 GHz, 2 MB cache; VT-d); Core I3-8100 (4C/4T, 5.6, GFZ, 6 MB cache, VT-d); Core I7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core I7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core I7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core I7-8700 (GC/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core I7-8700 (GC/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core I7-8700 (GC/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core I7-8700 (GC/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core I7-8700 (GC/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core I7-8700 (GC/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core I7-8700 (GC/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core I7-8700 (GC/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core I7-8700 (GC/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core I7-8700 (GC/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core I7-8700 (GC/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core I7-8700 (GC/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core I7-8700 (GC/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core I7-8700 (GC/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core I7-8700 (GC/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core I7-8700 (GC/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d); Core I7-8700 (GC/12T, 3.2 (4.6) GHZ, 12 MS Cache, VT-d); Core I7-8700 (GC/12T, 3.2 (4.6) GHZ, 12 MB cache, VT-d); Core I7-8700 (GC/12T, 3.2 (4.6) GHZ, 12 MS Cache, VT-d); Core I7-8700 (GC/12T, 3.2 (4.6) GHZ, 12 MS Cache, VT-d); Core IT-4700 (GC/12T, 3.2 (4.6) GHZ, 12 MS Cache, VT-d); Core IT-4700 (GC/12T, 3.2 (4.6) GHZ, 12 MS Cache, VT-d); Core IT-4700 (GC/12T, MD, 12 MD Cache, VT-d); Core	Supply voltage	
Aated value 50 Hz Kated value 50 Hz Kated value 50 Hz Yes Xes X	Type of supply voltage	100/240 V AC (autorange); 24 V DC
• Rated value 60 Hz Yes Mains buffering • • Mains/voltage failure stored energy time 20 ms Processor Celeron G4900 (2C/2T, 3.1 GHz, 2.MB cache, VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 2.4 MB cache, VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 2.4 MB cache, VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 2.4 MB cache, VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 2.4 MB cache, VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 2.4 MB cache, VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 2.4 MB cache, VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 2.4 MB cache, VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 2.4 MB cache, VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 2.4 MB cache, VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 2.4 MB cache, VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 2.4 MB cache, VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 2.4 MB cache, VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 2.4 MB cache, VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 2.4 MB cache, VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 2.4 MB cache, VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 2.4 MB cache, VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 2.4 SID); Core i3-8174 A80 / 960 GB, RAID1 2x SSD 2; SSD A2 SSD	Line frequency	
Mains buffering 20 ms Processor Celeron C4300 (2C/2T, 3.1 GHz, 2.MB cache; VT-d), Core 13-8100 (4C/4T, 3.6 GHz, 6.MB cache; VT-d), Core 17-8700 (6C/12T, 3.2 (4.9) GHz, 1.2 MB cache; VT-d), Core 17-8700 (6C/12T, 3.2 (4.9) GHz, 1.2 MB cache; VT-d), Core 17-8700 (6C/12T, 3.2 (4.9) GHz, 1.2 MB cache; VT-d), Core 17-8700 (6C/12T, 3.2 (4.9) GHz, 1.2 MB cache; VT-d), Core 17-8700 (6C/12T, 3.2 (4.9) GHz, 1.2 MB cache; VT-d), Core 17-8700 (6C/12T, 3.2 (4.9) GHz, 1.2 MB cache; VT-d), Core 17-8700 (6C/12T, 3.2 (4.9) GHz, 1.2 MB cache; VT-d), Core 17-8700 (6C/12T, 3.2 (4.9) GHz, 1.2 MB cache; VT-d), Core 17-8700 (6C/12T, 3.2 (4.9) GHz, 1.2 MB cache; VT-d), Core 17-8700 (6C/12T, 3.2 (4.9) GHz, 1.2 MB cache; VT-d), Core 17-8700 (6C/12T, 3.2 (4.9) GHz, 1.2 MB cache; VT-d), Core 17-8700 (6C/12T, 3.2 (4.9) GHz, 1.2 MB cache; VT-d), Core 17-8700 (6C/12T, 3.2 (4.9) GHz, 1.2 MB cache; VT-d), Core 17-8700 (6C/12T, 3.2 (4.9) GHz, 1.2 MB cache; VT-d), Core 17-8700 (6C/12T, 3.2 (4.9) GHz, 1.2 MB cache; VT-d), Core 17-8700 (6C/12T, 3.2 (4.9) GHz, 1.2 MB cache; VT-d), Core 17-8700 (6C/12T, 3.2 (4.9) GHz, 1.2 MB cache; VT-d), Core 17-8700 (6C/12T, 3.2 (4.9) GHz, 1.2 MB cache; VT-d), Core 17-8700 (6C/12T, 3.2 (4.9) GHz, 1.2 MB cache; VT-d), Core 17-8700 (6C/12T, 3.2 CHE, 1.2 MB cache; VT-d), Core 17-8700 (6C/12T, 3.2 CHE, 1.2 MB cache; VT-d), S100 (Core 110 MICH) Interval Memory Intel UHD Graphics 630 (Core 1); Intel UHD Graphics 610 (Celeron) DV Memory Question of the core 10 MB (VIEC) DDR4-2666 DIMM Main memory Question of VIEC (VIEC) (V	Rated value 50 Hz	Yes
• Mains/voltage failure stored energy time 20 ms Processor Celeron G4900 (2C/2T, 3.1 GHz, 2 MB cache; VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d); Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d, MT) Chipset Intel C246 Graphic Intel UHD Graphics 630 (Core i); Intel UHD Graphics 610 (Celeron) Drives Intel VHD Graphics 630 (Core i); Intel UHD Graphics 610 (Celeron) Processor Intel VHD Graphics 630 (Core i); Intel UHD Graphics 610 (Celeron) Drives Intel VHD Graphics 630 (Core i); Intel UHD Graphics 610 (Celeron) SSD 2:5" SATA 480 / 960 GB in removable drive bay Memory DR4-2666 DIMM Type of memory DDR4-2666 DIMM Main memory, max. DDR4-2666 DIMM Data areas and their retentivity Energy (Coleron) Retentive data area (incl. timers, counters, flags), max. 512 kbyte; 128 KB can be stored in the buffer time Hardware configuration Sibts 2x PCI; optional; 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); 3x PCI & 2x PCIe (x16); x4; (5x PCI & (x16, 2x4, 2x1); with card retainer • Number of PCI slots 5; Optional 5; Optional • Number of PCI slots 5; Optional 5; Optional • Number of PCI slots 5;	Rated value 60 Hz	Yes
Processor Processor type Celeron G4900 (2C/2T, 3.1 GHz, 2 MB cache; VT-d); Core I3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d, AMT) Chipset Intel C246 Graphic Intel C246 Graphic controller Intel UHD Graphics 630 (Core I); Intel UHD Graphics 610 (Celeron) Drives Intel UHD Graphics 630 (Core I); Intel UHD Graphics 610 (Celeron) Memory 2.6° SATA 2 320 GB Yes; SSD M2 NVK 512 GB; SSD 2.5° SATA 480 / 960 GB; RAID1 2x SSD 2; 5° SATA 480 / 960 GB; RAID1 2; 5° C	Mains buffering	
Processor type Celeron G4900 (2C/2T, 3.1 GHz, 2 MB cache; VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 6 MB cache; VT-d); Core i7-8700 (6C/12T, 3.2 (4.8) GHz, 12 MB cache; VT-d); Core i7-8700 (6C/12T, 3.2 (4.8) GHz, 12 MB cache; VT-d); Core i7-8700 (6C/12T, 3.2 (4.8) GHz, 12 MB cache; VT-d); Core i7-8700 (6C/12T, 3.2 (4.8) GHz, 12 MB cache; VT-d); Core i7-8700 (6C/12T, 3.2 (4.8) GHz, 12 MB cache; VT-d); Core i7-8700 (6C/12T, 3.2 (4.8) GHz, 12 MB cache; VT-d); Core i7-8700 (6C/12T, 3.2 (4.8) GHz, 12 MB cache; VT-d); Core i7-8700 (6C/12T, 3.2 (4.8) GHz, 12 MB cache; VT-d); Core i7-8700 (6C/12T, 3.2 (4.8) GHz, 12 MB cache; VT-d); Core i7-8700 (6C/12T, 3.2 (4.8) GHz, 12 MB cache; VT-d); Core i7-8700 (6C/12T, 3.2 (4.8) GHz, 12 MB cache; VT-d); Core i7-8700 (6C/12T, 3.2 (4.8) GHz, 12 MB cache; VT-d); Core i7-8700 (6C/12T, 3.2 (4.8) GHz, 12 MB cache; VT-d); Core i7-8700 (6C/12T, 3.2 (4.8) GHz, 12 MB cache; VT-d); Core i7-8700 (6C/12T, 3.2 (4.8) GHz, 12 MB cache; VT-d); Core i7-8700 (6C/12T, 3.2 (4.8) GHz, 12 MB cache; VT-d); Core i7-8700 (6C/12T, 3.2 (4.8) GHz, 12 MB cache; VT-d); Core i7-8700 (6C/12T, 3.2 (6.8) GHZ, 12 MB cache; VT-d); Core i7-8700 (6C/12T, 3.2 (6.8) GHZ, 12 MB cache; VT-d); Core i7-8700 (6C/12T, 3.2 (6.8) GHZ, 12 MB cache; VT-d); Core i7-8700 (6C/12T, 3.2 (6.8) GHZ, 12 MB cache; VT-d); Core i7-8700 (6C/12T, 3.2 (6.8) GHZ, 12 MB cache; VT-d); Core i7-8700 (6C/12T, 3.2 (6.6) GHZ, 12 MD cache; VS SD J2, 05 GHZ, 14 MT) Memory Index if all their retainting Index if all field interes interviewer Order of industrial ethernet interfaces 2x CPCle (x16, 2x 4, 2x1); with card retainer Si Disto S; Cptional Interface 3x Ethernet (RJ45) Si Disto S; Cptional Si Disto S; Cptional Interfaces 4x CM Si SE Hermet (R	 Mains/voltage failure stored energy time 	20 ms
Chipset Intel C48 Graphic Graphics controller Intel UHD Graphics 630 (Core i): Intel UHD Graphics 610 (Celeron) Drives Hard disk 2.5" SATA & 320 GB SSD 2.5" SATA & 320 GB SSD 2.5" SATA & 480 / 960 GB in removable drive bay Memory Use SSD A2 NVMe 512 GB; SSD 2.5" SATA 480 / 960 GB; RAID1 2x SSD 2.5" SATA 480 / 960 GB in removable drive bay Main memory 0DR4-2666 DIMM Main memory 4 / 8 / 16 / 32 / 64 GB Capacity of main memory, max. 64 Gbyte Data areas and their retentivity Retentive data area (incl. Imers, counters, flags), max. 512 kbyte; 128 KB can be stored in the buffer time Hardware configuration 512 kbyte; 128 KB can be stored in the buffer time Stots 2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); 3x PCI & 2x PCIe (x16, x4); 5x PCIe (x4, x16); 3x PCI & 2x PCIe (x16, x4); 5x PCI &	Processor	
Graphic Intel UHD Graphics 630 (Core i): Intel UHD Graphics 610 (Celeron) Drives Hard disk 2.5° SATA ≥ 320 GB SSD Yes; SSD M.2 NVM6 512 GB; SSD 2.5° SATA 480 / 960 GB; RAID1 2x SSD 2.5° SATA 480 / 960 GB in removable drive bay Memory DDR4-2666 DIMM Main memory A 18 / 16 / 32 / 64 GB Capacity of main memory, max. 64 Gbyte Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Hardware configuration 512 kbyte; 128 KB can be stored in the buffer time Stots 2x PCI; optional: 1x PCI 8 1x PCIe (x16); 2x PCIe (x4, x16); 3x PCI 8 2x PCIe (x16, x4); 5x PCI 8 2x PCI 8	Processor type	GHz, 6 MB cache, VT-d); Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache,
Graphics controller Intel UHD Graphics 630 (Core i); Intel UHD Graphics 610 (Celeron) Drives 2.5° SATA ≥ 320 GB SSD 2.5° SATA ≥ 320 GB SSD 2.5° SATA 480 / 960 GB in removable drive bay Memory DDR4-2666 DIMM Main memory DDR4-2666 DIMM Main memory 4 / 8 / 16 / 32 / 64 GB Capacity of main memory, max. 64 Gbyte Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Hardware configuration 512 kbyte; 128 KB can be stored in the buffer time Hardware configuration 50 s free slots free slots free slots for pC l slots for pO l slots for politic interfaces g: A 2thernet (RJ45) USB A 1 Gen. 2 (2x type C) Connection for keyboard/mouse USB / USB reasiral interface foustrial Ethernet industrial Ethernet<	Chipset	Intel C246
Drives Hard disk 2.5" SATA 4 320 GB SSD Yes; SSD M.2 NVMe 512 GB; SSD 2.5" SATA 480 / 960 GB; RAID1 2x SSD 2.5" SATA 480 / 960 GB in removable drive bay Memory DDR4-2666 DIMM Main memory DDR4-2666 DIMM Main memory 4 / 8 / 16 / 32 / 64 GB Capacity of main memory, max. 64 Gbyte Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Hardware configuration 512 kbyte; 128 KB can be stored in the buffer time Stots 2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); 3x PCI & 2x PCIe (x16, x4); 5x PCIe (1x16, 2x4, 2x1), with card retainer • Number of PCI slots 5; Optional • Number of PCI slots 5; Optional Number of Industrial Ethernet interfaces 3; 3x Ethernet (RJ45) USB JUSB 6x USB 3.1 Gen. 2 (2x type C) Connection for keyboard/mouse USB / USB serial interface 1x COM Video interfaces 2x DisplayPort; 1x DVI-D Industrial Ethernet Yes Industrial Ethernet Yes Industrial Ethernet 3x Ethernet (RJ45) - 1000 Mbps Yes Industrial Etheret 3x Eth	Graphic	
Hard disk 2.5" SATA ≥ 320 GB SSD Yes; SSD M.2 NVMe 512 GB; SSD 2.5" SATA 480 / 960 GB; RAID1 2x SSD 2.5" SATA 480 / 960 GB; in removable drive bay Memory DDR4-2666 DIMM Main memory 4 / 8 / 16 / 32 / 64 GB Capacity of main memory, max. 64 Gbyte Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. 512 kbyte; 128 KB can be stored in the buffer time Hardware configuration 510 kbyte; 128 KB can be stored in the buffer time Slots 2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); 3x PCI & 2x PCIe (x16, x4); 5x PCIe (x4, x16); 3x PCI & 2x PCIe (x16, x4); 5x PCIe (x4, x16); 3x PCI & 2x PCIe (x16, x4); 5x PCIe (x4, x16); 3x PCI & 2x PCIe (x16, x4); 5x PCIe (x5, x16, x4); 5x PCIe (x4, x16); 3x PCI & 2x PCIe (x16, x4); 5x PCIe (x4, x16); 3x PCI & 2x PCIe (x16, x4, 2x1); with card retainer • Number of PCI slots 5; Optional Interfaces 3; 3x Ethernet (RJ45) Vulbe or findustrial Ethernet interfaces 3; 3x Ethernet (RJ45) e-fraphics interface 1x COM Video interfaces 2x DisplayPort; 1x DVI-D Industrial Ethernet 3x Ethernet (RJ45) - 100 Mbps Yes - 100 Mbps Yes Integrated Functions Yes	Graphics controller	Intel UHD Graphics 630 (Core i); Intel UHD Graphics 610 (Celeron)
SSD Yes; SSD M.2 NVMe 512 GB; SSD 2.5" SATA 480 / 960 GB; RAID1 2x SSD 2.5" SATA 480 / 960 /	Drives	
At 480 / 960 GB in removable drive bay Type of memory DDR4-2666 DIMM Main memory 4 / 8 / 16 / 32 / 6 GB Capacity of main memory, max. 64 Gbyte Data areas and their retentivity Extensive data area (incl. timers, counters, flags), max. Fardware configuration 512 kbyte; 128 KB can be stored in the buffer time Stots 2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); 3x PCI & 2x PCIe (x16, x4), 5x PCI e (1x16, 2x4, 2x1); with card retainer • free slots 2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); 3x PCI & 2x PCIe (x16, x4), 5x PCI e (1x16, 2x4, 2x1); with card retainer • Number of PCI slots 5; Optional • Number of PCI slots 5; Optional • Number of industrial Ethernet interfaces 3; 3x Ethernet (RJ45) USB port 6x USB 3.1 Gen. 2 (2x type C) Connection for keyboard/mouse USB / USB serial interface 1x COM Video interfaces 2x DisplayPort; 1x DV-D Industrial Ethernet -100 Mbps - 100 Mbps Yes Integrated Functions Yes	Hard disk	2.5" SATA ≥ 320 GB
Type of memory DDR4-2666 DIMM Main memory 4 / 8 / 16 / 32 / 64 GB Capacity of main memory, max. 64 Gbyte Data areas and their retentivity 84 Gbyte Retentive data area (incl. timers, counters, flags), max. 512 kbyte; 128 KB can be stored in the buffer time Hardware configuration 512 kbyte; 128 KB can be stored in the buffer time Slots • free slots 2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); 3x PCI & 2x PCIe (x16, x4); 5x PCIe (1x16, 2x4, 2x1); with card retainer • Number of PCI slots 5; Optional • Number of PCI slots 5; Optional • Number of industrial Ethernet interfaces 3; 3x Ethernet (RJ45) USB port 6x USB 3.1 Gen. 2 (2x type C) Connection for keyboard/mouse USB / USB • Graphics interface 2x DisplayPort; 1x DVI-D Industrial Ethernet • Industrial Ethernet interface • Industrial Ethernet 3x Ethernet (RJ45) • Industrial Ethernet 9x Ethernet (RJ45) • Industrial Ethernet interface 1x Ethernet (RJ45) • Industrial Ethernet interface 1x Ethernet (RJ45) • Industrial Ethernet interface 3x Ethernet (RJ45) • 100 Mbps Yes Integrated Functions Yes	SSD	
Alin memory 4 / 8 / 16 / 32 / 64 GB Capacity of main memory, max. 64 Gbyte Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. 512 kbyte; 128 KB can be stored in the buffer time Hardware configuration Slots 2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); 3x PCI & 2x PCIe (x16, x4); 5x PCIe (1x16, 2x4, 2x1); with card retainer • Number of PCI slots 5; Optional • Number of PCI slots 5; Optional • Number of Industrial Ethernet interfaces 3; 3x Ethernet (RJ45) USB port 6x USB 3.1 Gen. 2 (2x type C) Connection for keyboard/mouse USB / USB serial interface 1x COM Video interfaces 3x Ethernet (RJ45) • Graphics interface 2x DisplayPort; 1x DVI-D Industrial Ethernet 3x Ethernet (RJ45) • Industrial Ethernet interface 3x Ethernet (RJ45) - 100 Mbps Yes Integrated Functions Yes	Memory	
Capacity of main memory, max. 64 Gbyte Data areas and their retentivity Edentive data area (incl. timers, counters, flags), max. 512 kbyte; 128 KB can be stored in the buffer time Hardware configuration Slots 512 kbyte; 128 KB can be stored in the buffer time Hardware configuration Slots 512 kbyte; 128 KB can be stored in the buffer time Image: Slots Slots 512 kbyte; 128 KB can be stored in the buffer time Image: Slots Slots 512 kbyte; 128 KB can be stored in the buffer time Image: Slots Slots 512 kbyte; 128 KB can be stored in the buffer time Image: Slots Slots 512 kbyte; 128 KB can be stored in the buffer time Image: Slots Slots Slots 512 kbyte; 128 KB can be stored in the buffer time Integrated FUL Integrated Functions 512 kbyte; 128 KB can be stored in the buffer time Industrial Ethernet interfaces 512 kbyte; 128 KB can be stored in the buffer time 512 kbyte; 128 KB can be stored in the buffer time Industrial Ethernet interface 133 K Ethernet (RJ45) Store (2 ktype C) Store (2 ktype C) Video interfaces 2x DisplayPort; 1x DVI-D Industrial Ethernet Industrial Ethernet interface 3x Ethernet (RJ45) Store (RJ45) Store (RJ45) </td <td>Type of memory</td> <td>DDR4-2666 DIMM</td>	Type of memory	DDR4-2666 DIMM
Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Hardware configuration Slots • free slots 2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); 3x PCI & 2x PCIe (x16, x4); 5x PCIe (1x16, 2x4, 2x1); with card retainer • Number of PCI slots 5; Optional Interfaces 3; 3x Ethernet (RJ45) USB port 6x USB 3.1 Gen. 2 (2x type C) Connection for keyboard/mouse USB / USB serial interface 1x COM Video interfaces 3x Ethernet (RJ45) • Graphics interface 2x DisplayPort; 1x DVI-D Industrial Ethernet interface 3x Ethernet (RJ45) - 100 Mbps Yes Integrated Functions Yes	Main memory	4 / 8 / 16 / 32 / 64 GB
Retentive data area (incl. timers, counters, flags), max. 512 kbyte; 128 KB can be stored in the buffer time Hardware configuration Slots Slots 2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); 3x PCI & 2x PCIe (x16, x4); 5x PCIe (1x16, 2x4, 2x1); with card retainer • Number of PCI slots 5; Optional • Number of PCI slots 5; Optional • Number of PCI slots 3; 3x Ethernet (RJ45) USB port 6x USB 3.1 Gen. 2 (2x type C) Connection for keyboard/mouse USB / USB serial interface 1x COM Video interfaces 2x DisplayPort; 1x DVI-D Industrial Ethernet interface 3x Ethernet (RJ45) - 100 Mbps Yes Integrated Functions Yes	Capacity of main memory, max.	64 Gbyte
Hardware configuration Slots • free slots 2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); 3x PCI & 2x PCIe (x16, x4); 5x PCIe (x16, x4); 5x PCIe (x16, 2x4, 2x1); with card retainer • Number of PCI slots 5; Optional • Number of PCI slots 5; Optional Interfaces 3; 3x Ethernet (RJ45) USB port 6x USB 3.1 Gen. 2 (2x type C) Connection for keyboard/mouse USB / USB serial interface 1x COM Video interfaces 3x Ethernet (RJ45) Industrial Ethernet interface 2x DisplayPort; 1x DVI-D Industrial Ethernet interface 3x Ethernet (RJ45) • Industrial Ethernet 9x COM • Industrial Ethernet 9x Ethernet (RJ45) • Industrial Ethernet 9x Ethernet (RJ45) • Industrial Ethernet 9x Ethernet (RJ45) • 100 Mbps Yes Integrated Functions Yes	Data areas and their retentivity	
Slots 2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); 3x PCI & 2x PCIe (x16, x4); 5x PCIe (1x16, 2x4, 2x1); with card retainer • Number of PCI slots 5; Optional • Number of PCI slots 5; Optional Interfaces 3; 3x Ethernet (RJ45) USB port 6x USB 3.1 Gen. 2 (2x type C) Connection for keyboard/mouse USB / USB serial interface 1x COM Video interfaces 2x DisplayPort; 1x DVI-D Industrial Ethernet 3x Ethernet (RJ45) • Industrial Ethernet 2x DisplayPort; 1x DVI-D Industrial Ethernet 3x Ethernet (RJ45) • Industrial Ethernet 9x USB • Industrial Ethernet 9x USB • Industrial Ethernet 9x Ethernet (RJ45) • 100 Mbps Yes Integrated Functions Yes	Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time
• free slots2x PCI: optional: 1x PCI & 1x PCI & 1x PCI (x16); 2x PCIe (x4, x16); 3x PCI & 2x PCIe (x16, x4); 5x PCIe (x16	Hardware configuration	
(x16, x4); 5x PCle (1x16, 2x4, 2x1); with card retainer• Number of PCl slots5; Optional• Number of PCl slots5; OptionalInterfaces1Number of industrial Ethernet interfaces3; 3x Ethernet (RJ45)USB port6x USB 3.1 Gen. 2 (2x type C)Connection for keyboard/mouseUSB / USBserial interface1x COMVideo interfaces2x DisplayPort; 1x DVI-DIndustrial Ethernet3x Ethernet (RJ45)• Industrial Ethernet3x Ethernet (RJ45)• Industrial Ethernet3x Ethernet (RJ45)• Industrial Ethernet1x COMIndustrial Ethernet9• Industrial Ethernet1x CM• Industrial Ethernet9• Industrial Ethernet9• Industrial Ethernet100 Mbps• Industrial Ethernet interface9• Industrial Ethernet interface100 Mbps• Temperature monitoringYes	Slots	
• Number of PCI slots 5; Optional Interfaces Number of industrial Ethernet interfaces 3; 3x Ethernet (RJ45) USB port 6x USB 3.1 Gen. 2 (2x type C) Connection for keyboard/mouse USB / USB serial interface USB / USB serial interface 1x COM Video interfaces 2x DisplayPort; 1x DVI-D Industrial Ethernet 3x Ethernet (RJ45) - 100 Mbps Yes Integrated Functions Yes Monitoring functions Yes	• free slots	
Interfaces Number of industrial Ethernet interfaces 3; 3x Ethernet (RJ45) USB port 6x USB 3.1 Gen. 2 (2x type C) Connection for keyboard/mouse USB / USB serial interface 1x COM Video interfaces 2x DisplayPort; 1x DVI-D Industrial Ethernet 1 • Industrial Ethernet interface 3x Ethernet (RJ45) - 100 Mbps Yes Integrated Functions Yes Monitoring functions Yes	Number of PCI slots	5; Optional
Number of industrial Ethernet interfaces 3; 3x Ethernet (RJ45) USB port 6x USB 3.1 Gen. 2 (2x type C) Connection for keyboard/mouse USB / USB serial interface 1x COM Video interfaces 2x DisplayPort; 1x DVI-D Industrial Ethernet 3x Ethernet (RJ45) • Industrial Ethernet 9x Ethernet (RJ45) • 100 Mbps Yes Integrated Functions Yes • Temperature monitoring Yes	Number of PCI slots	5; Optional
USB port 6x USB 3.1 Gen. 2 (2x type C) Connection for keyboard/mouse USB / USB serial interface 1x COM Video interfaces 2x DisplayPort; 1x DVI-D Industrial Ethernet 3x Ethernet (RJ45) - 100 Mbps Yes Integrated Functions Yes Monitoring functions Yes	Interfaces	
Connection for keyboard/mouseUSB / USBserial interface1x COMVideo interfaces2x DisplayPort; 1x DVI-DIndustrial Ethernet2x DisplayPort; 1x DVI-DIndustrial Ethernet interface3x Ethernet (RJ45)- 100 MbpsYes- 1000 MbpsYesIntegrated FunctionsYesMonitoring functionsYes• Temperature monitoringYes	Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)
serial interface 1x COM Video interfaces 2x DisplayPort; 1x DVI-D Industrial Ethernet Industrial Ethernet interface • Industrial Ethernet interface 3x Ethernet (RJ45) - 100 Mbps Yes - 1000 Mbps Yes Integrated Functions Yes Monitoring functions Yes	USB port	6x USB 3.1 Gen. 2 (2x type C)
Video interfaces • Graphics interface 2x DisplayPort; 1x DVI-D Industrial Ethernet • Industrial Ethernet interface 3x Ethernet (RJ45) - 100 Mbps Yes - 100 Mbps Yes Integrated Functions Yes Monitoring functions Yes	Connection for keyboard/mouse	USB / USB
• Graphics interface 2x DisplayPort; 1x DVI-D Industrial Ethernet 3x Ethernet (RJ45) • Industrial Ethernet interface 3x Ethernet (RJ45) • 100 Mbps Yes • 1000 Mbps Yes Integrated Functions Yes • Temperature monitoring Yes	serial interface	1x COM
Industrial Ethernet • Industrial Ethernet interface 3x Ethernet (RJ45) - 100 Mbps Yes - 1000 Mbps Yes Integrated Functions Yes • Temperature monitoring Yes	Video interfaces	
Industrial Ethernet interface 3x Ethernet (RJ45) - 100 Mbps Yes - 1000 Mbps Yes Integrated Functions Integrated Functions • Temperature monitoring Yes	Graphics interface	2x DisplayPort; 1x DVI-D
- 100 Mbps Yes - 1000 Mbps Yes Integrated Functions Yes Monitoring functions Yes	Industrial Ethernet	
- 1000 Mbps Yes Integrated Functions Yes Monitoring functions Yes	 Industrial Ethernet interface 	3x Ethernet (RJ45)
Integrated Functions Monitoring functions Temperature monitoring Yes	— 100 Mbps	Yes
Monitoring functions Yes	— 1000 Mbps	Yes
Temperature monitoring Yes	Integrated Functions	
	Monitoring functions	
Watchdog Yes	Temperature monitoring	Yes
	Watchdog	Yes

Status LEDs	1x power, 3x user
• Fan	Yes
 Monitoring function via network 	Optional
EMC	
Interference immunity against discharge of static electricity	
 Interference immunity against discharge of static 	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC
electricity	61000-4-2
Interference immunity against high-frequency electromagnetic field	
 Interference immunity against high frequency radiation 	10 V/m for 80 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 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 	\pm 2 kV acc. to IEC 61000-4-5, surge, length > 30 m
 Interference immunity on signal cables < 30m 	± 1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ± 2 kV acc. to IEC 61000-4-4; burst; length > 3 m
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, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
EMC	CE, EN 61000-6-3:2007 +A1:2011, EN 61000-6-2:2005
Marine approval	
 American Bureau of Shipping (ABS) 	Yes
 Det Norske Veritas (DNV) 	Yes
 Nippon Kaiji Kyokai (Class NK) 	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	5 °C
• max.	55 °C
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: 0.075 mm; 58 Hz to 500 Hz 9.8 m/s ² (1 g)
Shock testing	
Shock load during operation Operating systems	Tested to DIN IEC 60068-2-29: 50 m/s ² (5 g), 30 ms, 100 shocks
	Windows 10 Enterprise 2016 LTSB or 2019 LTSC 64-bit, MUI
pre-installed operating system	
pre-installed operating system without operating system	Yes; Optional
pre-installed operating system without operating system pre-installed operating system	Yes; Optional
pre-installed operating system without operating system pre-installed operating system • Windows 10 Enterprise	
pre-installed operating system without operating system pre-installed operating system	Yes; Optional

Width	314 mm
Height	93 mm; For variant 5x PCI(e): 155 mm
Depth	301 mm; incl. mounting rail

last modified:

7/16/2022 🖸