## **SIEMENS**

## Data sheet 6AV7260-2JE40-0CX6

SIMATIC IPC677D (Panel PC), 2x10/100/1000 Mbit/s Ethernet; 4x USB V3.0, 1x serial (COM1); Watchdog, temperature and Fan monitoring; RAID controller onboard; 22" Touch (1920x 1080); with front USB XEON E3-1268LV3 (4C/8T, 2.3 (3.3) GHz, 8 MB cache VT-D, AMT); PROFINET (IRT, 3 ports, CP 1616-compatible); 2 MB buffered SRAM 1 TB HDD SATA; DVD +/-RW 16 GB DDR3 1600 DIMM; 2x PCI without expansion (HW) Windows 10 Enterprise LTSB 2015, 64 bit, MUI (en, de, fr, it, es); without expansion (software) 24 V DC industrial Power supply

General information	
Product type designation	IPC677D
Display	
Design of display	22" TFT touch
Screen diagonal	22 in
Resolution (pixels)	
<ul> <li>Horizontal image resolution</li> </ul>	1 920 pixel
Vertical image resolution	1 080 pixel
Backlighting	
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	30 000 h
Control elements	
Input device	
Mouse, at front	Front USB 2.0 (500mA)
Touch operation	
<ul> <li>Design as touch screen</li> </ul>	Yes; analog, resistive
Installation type/mounting	
Mounting	For horizontal and vertical mounting
Design	Panel PC, built-in unit
central design	Yes
Mounting in portrait format possible	Yes
maximum permissible installation angle +/-	20°
Supply voltage	
Type of supply voltage	100/240 V AC (autorange); 24 V DC
Line frequency	
<ul> <li>Rated value 50 Hz</li> </ul>	Yes
Rated value 60 Hz	Yes
Mains buffering	
<ul> <li>Mains/voltage failure stored energy time</li> </ul>	10 ms
Power loss	
In full configuration	165 W
Processor	
Processor type	Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB Cache, AMT)
Chipset	Intel DH82C226 PCH
Graphic	
Graphics controller	Intel HD graphics controller P4600 GT2 (Xeon, Core i3); Intel HD graphics controller (Celeron)
Drives	
Optical drives	DVD±R±RW combi-drive, optional
Hard disk	3.5" SATA ≥ 500 GB, optional: 3.5" SATA ≥ 1 TB; RAID1 2x 2.5" SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bay
SSD	Yes; ≥ 240 GB optional
Memory	
Type of memory	DDR3-1600 DIMM
Main memory	2 / 4 / 8 / 16 GB; ECC optional

Canacity of main mamory, may	16 Chuto
Capacity of main memory, max.  Data areas and their retentivity	16 Gbyte
Retentive data area (incl. timers, counters, flags), max.	2 Mbyte; 128 KB can be stored in the buffer time; optional
Hardware configuration	2 Mbyte, 126 KB can be stored in the buller time, optional
Slots	
• free slots	2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); with card retainer
Number of PCI slots	2
Number of PCI slots	2
Interfaces	
PROFIBUS/MPI	Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622
Number of industrial Ethernet interfaces	2; 2x RJ45 (independent)
Number of PROFINET interfaces	3; Optional
USB port	4x USB 3.0
Connection for keyboard/mouse	USB / USB
serial interface	1x COM1 (RS 232), optional: 1x COM2 (RS 232)
parallel interface	optional LPT1
Video interfaces	
Graphics interface	1x DisplayPort and 1x DVI-I; 1x VGA via adapter cable (optional)
Industrial Ethernet	
Industrial Ethernet interface	onboard, 2x 10 / 100 / 1 000 Mbit, RJ45
— 100 Mbps	Yes
— 1000 Mbps	Yes
Interrupts/diagnostics/status information	
Bus diagnostics	Yes
Integrated Functions	
Monitoring functions	
Temperature monitoring	Yes
Watchdog	Yes
Status LEDs	Yes
• Fan	Yes
Monitoring function via network  EMC	Optional
Interference immunity against discharge of static electricity	+6 kV contact discharge acc. to IEC 61000-4-2: +8 kV air discharge acc. to IEC
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 discharge of static	61000-4-2
Interference immunity against discharge of static electricity	61000-4-2
Interference immunity against discharge of static electricity  Interference immunity against high-frequency electromagnetic fields.	61000-4-2 s 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,
Interference immunity against discharge of static electricity  Interference immunity against high-frequency electromagnetic fields     Interference immunity against high frequency radiation	61000-4-2 s 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,
Interference immunity against discharge of static electricity  Interference immunity against high-frequency electromagnetic fields  Interference immunity against high frequency radiation  Interference immunity to cable-borne interference  Interference immunity on supply cables	61000-4-2 s 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  ±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 against discharge of static electricity  Interference immunity against high-frequency electromagnetic fields Interference immunity against high frequency radiation  Interference immunity to cable-borne interference Interference immunity on supply cables  Interference immunity on signal cables >30m	61000-4-2  S  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  ±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, length > 30 m
Interference immunity against discharge of static electricity  Interference immunity against high-frequency electromagnetic fields     Interference immunity against high frequency radiation  Interference immunity to cable-borne interference     Interference immunity on supply cables	61000-4-2  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  ±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, length > 30 m ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4;
Interference immunity against discharge of static electricity  Interference immunity against high-frequency electromagnetic fields  Interference immunity against high frequency radiation  Interference immunity to cable-borne interference  Interference immunity on supply cables  Interference immunity on signal cables > 30m  Interference immunity on signal cables < 30m	61000-4-2  S  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  ±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, length > 30 m
Interference immunity against discharge of static electricity  Interference immunity against high-frequency electromagnetic fields Interference immunity against high frequency radiation  Interference immunity to cable-borne interference Interference immunity on supply cables  Interference immunity on signal cables > 30m Interference immunity on signal cables < 30m  Interference immunity against voltage surge	61000-4-2  S  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  ±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 ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m ±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 discharge of static electricity  Interference immunity against high-frequency electromagnetic fields  Interference immunity against high frequency radiation  Interference immunity to cable-borne interference  Interference immunity on supply cables  Interference immunity on signal cables > 30m  Interference immunity on signal cables < 30m	61000-4-2 s 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  ±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, length > 30 m ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4;
Interference immunity against discharge of static electricity  Interference immunity against high-frequency electromagnetic fields  Interference immunity against high frequency radiation  Interference immunity to cable-borne interference  Interference immunity on supply cables  Interference immunity on signal cables >30m  Interference immunity on signal cables < 30m  Interference immunity against voltage surge  asymmetric interference	61000-4-2  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  ±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  ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m  ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m  ±2 kV acc. to IEC 61000-4-5, surge asymmetric
Interference immunity against discharge of static electricity  Interference immunity against high-frequency electromagnetic fields Interference immunity against high frequency radiation  Interference immunity to cable-borne interference Interference immunity on supply cables  Interference immunity on signal cables >30m Interference immunity on signal cables < 30m  Interference immunity against voltage surge asymmetric interference symmetric interference	61000-4-2  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  ±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  ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m  ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m  ±2 kV acc. to IEC 61000-4-5, surge asymmetric
Interference immunity against discharge of static electricity  Interference immunity against high-frequency electromagnetic fields  Interference immunity against high frequency radiation  Interference immunity to cable-borne interference  Interference immunity on supply cables  Interference immunity on signal cables >30m  Interference immunity on signal cables < 30m  Interference immunity against voltage surge  asymmetric interference  symmetric interference  Interference immunity to magnetic fields	61000-4-2  S  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  ±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 ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m  ±2 kV acc. to IEC 61000-4-5, surge asymmetric ±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity against discharge of static electricity  Interference immunity against high-frequency electromagnetic fields  Interference immunity against high frequency radiation  Interference immunity to cable-borne interference  Interference immunity on supply cables  Interference immunity on signal cables >30m  Interference immunity on signal cables < 30m  Interference immunity against voltage surge  asymmetric interference symmetric interference Interference immunity to magnetic fields  Interference immunity to magnetic fields at 50 Hz	61000-4-2  S  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  ±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 ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m  ±2 kV acc. to IEC 61000-4-5, surge asymmetric ±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity against discharge of static electricity  Interference immunity against high-frequency electromagnetic fields  Interference immunity against high frequency radiation  Interference immunity to cable-borne interference  Interference immunity on supply cables  Interference immunity on signal cables >30m  Interference immunity on signal cables < 30m  Interference immunity against voltage surge  asymmetric interference symmetric interference Interference immunity to magnetic fields  Interference immunity to magnetic fields at 50 Hz  Emission of conducted and non-conducted interference	61000-4-2  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  ±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 ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m  ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m  ±2 kV acc. to IEC 61000-4-5, surge asymmetric ±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity against discharge of static electricity  Interference immunity against high-frequency electromagnetic fields  Interference immunity against high frequency radiation  Interference immunity to cable-borne interference  Interference immunity on supply cables  Interference immunity on signal cables >30m  Interference immunity on signal cables < 30m  Interference immunity against voltage surge  asymmetric interference  symmetric interference  Interference immunity to magnetic fields  Interference immunity to magnetic fields at 50 Hz  Emission of conducted and non-conducted interference  Interference emission via line/AC current cables	61000-4-2  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  ±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 ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m  ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m  ±2 kV acc. to IEC 61000-4-5, surge asymmetric ±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity against discharge of static electricity  Interference immunity against high-frequency electromagnetic fields  Interference immunity against high frequency radiation  Interference immunity to cable-borne interference  Interference immunity on supply cables  Interference immunity on signal cables >30m  Interference immunity on signal cables < 30m  Interference immunity against voltage surge  asymmetric interference  symmetric interference  Interference immunity to magnetic fields  Interference immunity to magnetic fields at 50 Hz  Emission of conducted and non-conducted interference  Interference emission via line/AC current cables  Degree and class of protection	61000-4-2  S  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  ±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 ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m  ±2 kV acc. to IEC 61000-4-5, surge asymmetric ±1 kV acc. to IEC 61000-4-5, surge symmetric  ±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity against discharge of static electricity  Interference immunity against high-frequency electromagnetic fields Interference immunity against high frequency radiation  Interference immunity to cable-borne interference Interference immunity on supply cables  Interference immunity on signal cables >30m Interference immunity on signal cables < 30m  Interference immunity against voltage surge  asymmetric interference symmetric interference Interference immunity to magnetic fields Interference immunity to magnetic fields at 50 Hz  Emission of conducted and non-conducted interference Interference emission via line/AC current cables  Degree and class of protection  IP (at the front)	61000-4-2  S  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  ±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 ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m  ±2 kV acc. to IEC 61000-4-5, surge asymmetric ±1 kV acc. to IEC 61000-4-5, surge symmetric  ±1 kV acc. to IEC 61000-4-5, surge symmetric  100 A/m; to IEC 61000-4-8
Interference immunity against discharge of static electricity  Interference immunity against high-frequency electromagnetic fields Interference immunity against high frequency radiation  Interference immunity to cable-borne interference Interference immunity on supply cables  Interference immunity on signal cables > 30m Interference immunity on signal cables < 30m  Interference immunity against voltage surge  asymmetric interference symmetric interference Interference immunity to magnetic fields Interference immunity to magnetic fields at 50 Hz  Emission of conducted and non-conducted interference Interference emission via line/AC current cables  Degree and class of protection  IP (at the front)  IP (rear)	61000-4-2  S  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  ±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 ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m  ±2 kV acc. to IEC 61000-4-5, surge asymmetric ±1 kV acc. to IEC 61000-4-5, surge symmetric  ±1 kV acc. to IEC 61000-4-5, surge symmetric  100 A/m; to IEC 61000-4-8
Interference immunity against discharge of static electricity  Interference immunity against high-frequency electromagnetic fields  Interference immunity against high frequency radiation  Interference immunity to cable-borne interference  Interference immunity on supply cables  Interference immunity on signal cables >30m  Interference immunity on signal cables < 30m  Interference immunity against voltage surge  asymmetric interference  symmetric interference  Interference immunity to magnetic fields  Interference immunity to magnetic fields at 50 Hz  Emission of conducted and non-conducted interference  Interference emission via line/AC current cables  Degree and class of protection  IP (at the front)  IP (rear)  Standards, approvals, certificates	61000-4-2  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  ±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 ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m  ±2 kV acc. to IEC 61000-4-5, surge asymmetric ±1 kV acc. to IEC 61000-4-5, surge symmetric ±1 kV acc. to IEC 61000-4-5, surge symmetric  100 A/m; to IEC 61000-4-8  EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Interference immunity against discharge of static electricity  Interference immunity against high-frequency electromagnetic fields  Interference immunity against high frequency radiation  Interference immunity to cable-borne interference  Interference immunity on supply cables  Interference immunity on signal cables >30m  Interference immunity on signal cables < 30m  Interference immunity against voltage surge  asymmetric interference  symmetric interference  Interference immunity to magnetic fields  Interference immunity to magnetic fields at 50 Hz  Emission of conducted and non-conducted interference  Interference emission via line/AC current cables  Degree and class of protection  IP (at the front)  IP (rear)  Standards, approvals, certificates  CE mark	61000-4-2  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  ±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 ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m  ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m  ±2 kV acc. to IEC 61000-4-5, surge asymmetric ±1 kV acc. to IEC 61000-4-5, surge symmetric  100 A/m; to IEC 61000-4-8  EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Interference immunity against discharge of static electricity  Interference immunity against high-frequency electromagnetic fields  Interference immunity against high frequency radiation  Interference immunity to cable-borne interference  Interference immunity on supply cables  Interference immunity on signal cables >30m  Interference immunity on signal cables < 30m  Interference immunity against voltage surge  asymmetric interference  symmetric interference  Interference immunity to magnetic fields  Interference immunity to magnetic fields at 50 Hz  Emission of conducted and non-conducted interference  Interference emission via line/AC current cables  Degree and class of protection  IP (at the front)  IP (rear)  Standards, approvals, certificates  CE mark  UL approval	61000-4-2  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  ±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 ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m  ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m  ±2 kV acc. to IEC 61000-4-5, surge asymmetric ±1 kV acc. to IEC 61000-4-5, surge symmetric  100 A/m; to IEC 61000-4-8  EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A  IP65 IP20
<ul> <li>Interference immunity against discharge of static electricity</li> <li>Interference immunity against high-frequency electromagnetic fields</li> <li>Interference immunity against high frequency radiation</li> <li>Interference immunity on signal high frequency radiation</li> <li>Interference immunity on supply cables</li> <li>Interference immunity on signal cables &gt;30m</li> <li>Interference immunity on signal cables &lt; 30m</li> <li>Interference immunity against voltage surge</li> <li>asymmetric interference</li> <li>symmetric interference</li> <li>Interference immunity to magnetic fields</li> <li>Interference immunity to magnetic fields at 50 Hz</li> <li>Emission of conducted and non-conducted interference</li> <li>Interference emission via line/AC current cables</li> <li>Degree and class of protection</li> <li>IP (at the front)</li> <li>IP (rear)</li> <li>Standards, approvals, certificates</li> <li>CE mark</li> <li>UL approval</li> <li>UL 508</li> </ul>	61000-4-2 s  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  ±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 ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-5, surge asymmetric ±1 kV acc. to IEC 61000-4-5, surge symmetric  ±1 kV acc. to IEC 61000-4-5, surge symmetric  100 A/m; to IEC 61000-4-8  EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A  IP65 IP20  Yes Yes Yes

EMC CE, EN 61000-6-4:2007, EN 61000-6-2:2005  Ambient temperature during operation	FCC	Yes	
Ambient conditions  Ambient temperature during operation  • min. • max. 45 °C  Ambient temperature during storage/transportation  • min. • max. 45 °C  Ambient temperature during storage/transportation  • min. • max. 60 °C  Relative humidity • Relative humidity • Relative humidity  • Relative humidity  • Relative humidity  • Vibrations  • Vibration resistance during operation acc. to IEC 60068-2-6 to 1EC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)  Vibrations  • Vibration resistance during operation acc. to IEC 60068-2-6 to 1Hz to 58 Hz: 0.075 mm; 58 Hz to 500 Hz 9.8 m/s² (1 g)  Shock testing • Shock load during operation • Shock load during operation • Windows 7  • Windows 7  • Windows 7  • Windows 7  • Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  * Windows 10 Enterprise  • Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  * Striware  SilMATIC Software  Optional package with SIMATIC WinCC or WinAC RTX  Dimensions  Width of the housing front  Height of housing front  Height of housing front  Height of housing front  Mounting cutout, width  Mounting cutout, width  • additional mounting depth (optical drive)  # Wolghts  Wolghts			
Ambient temperature during operation  min. max. 45 °C  Ambient temperature during storage/transportation  min. min. max. 60 °C  Relative humidity  Relative humidity Relative		52, 211 01000 0 1.2001, 211 01000 0 2.2000	
• min. • max. Abbient temperature during storage/transportation • min. • c20 °C • max. 66 °C  Relative humidity • Relative humidity • Relative humidity • Relative humidity • Relative numidity • Relative humidity • Relative numidity • Relative humidity • Relative numidity • Substance during operation acc. to IEC 60068-2-6 (about 9.8 m/s² (1 g)) • Shock testing • Shock load during operation • Shock load during operation • Shock load during operation • Windows 7 • Windows 10 Enterprise  SIMATIC Software  Windows 7 • Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Software  Window 50  Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Without operating system  Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Software  Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Without operating system  Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Software  Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Software  Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Software  Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Software  Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Software  Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Software  Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Software  Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Software  Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Software  Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Software  Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Software  Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Software  Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Software  Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Software  Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Windows 10 En			
max. 45 °C  Ambient temperature during storage/transportation     min. 20 °C     max. 60 °C  Relative humidity     Relative humidity     Relative humidity     Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)  Vibrations      Vibration resistance during operation acc. to IEC 60068-2-8 tested according to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm; 58 Hz to 500 Hz 9.8 m/s² (1 g)  Shock testing     Shock load during operation     Tested to DIN IEC 60068-2-29: 50 m/s² (5 g), 30 ms, 100 shocks  Operating systems  pre-installed operating system     Windows 7 Ultimate, 32-bit/64-bit, MUI; Windows Embedded Standard 7 P, 32-bit, MUI; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  without operating system     Windows 7 Yes; Ultimate 32 bit or 64 bit     Windows 7 Yes; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Software  SIMATIC Software  Optional package with SIMATIC WinCC or WinAC RTX  Dimensions  Width of the housing front 560 mm  Height of housing front 560 mm  Mounting cutout, width 542 mm  Mounting cutout, width 542 mm  Mounting cutout, width 112 mm     additional mounting depth (optical drive) 26 mm  Wolghts		5°C	
e min. e max. 60 °C  Relative humidity  • Stock humidity  • 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/s² (1 g)  Shock testing  • Shock load during operation  • Windows 7  • Windows 7 Ultimate, 32-bit/64-bit, MUI; Windows Embedded Standard 7 P, 32-bit, MUI; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  without operating system  • Windows 7  • Windows 10 Enterprise  • Windows 10 Enterprise  SIMATIC Software  SIMATIC Software  Optional package with SIMATIC WinCC or WinAC RTX  Dimensions  Width of the housing front  Height of housing front  Mounting cutout, width  4 additional mounting depth (optical drive)  • additional mounting depth (optical drive)  Weights			
e min. e max. 60 °C  Relative humidity  • Stock humidity  • 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/s² (1 g)  Shock testing  • Shock load during operation  • Windows 7  • Windows 7 Ultimate, 32-bit/64-bit, MUI; Windows Embedded Standard 7 P, 32-bit, MUI; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  without operating system  • Windows 7  • Windows 10 Enterprise  • Windows 10 Enterprise  SIMATIC Software  SIMATIC Software  Optional package with SIMATIC WinCC or WinAC RTX  Dimensions  Width of the housing front  Height of housing front  Mounting cutout, width  4 additional mounting depth (optical drive)  • additional mounting depth (optical drive)  Weights			
Relative humidity  Relative humidity  Relative humidity  Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)  Vibrations  Vibration resistance during operation acc. to IEC 60068-2-6 2-6  Shock testing  Shock testing  Tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm; 58 Hz to 500 Hz 9.8 m/s² (1 g)  Shock testing  Windows 7 Ultimate, 32-bit/64-bit, MUI; Windows Embedded Standard 7 P, 32-bit, MUI; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Without operating system  Windows 7 Yes; Ultimate 32 bit or 64 bit  Windows 10 Enterprise  SIMATIC Software  Optional package with SIMATIC WinCC or WinAC RTX  Dimensions  Width of the housing front  Height of housing front  Mounting cutout, width  Mounting cutout, width  Mounting cutout, height  Overall depth  additional mounting depth (optical drive)  Weights		-20 °C	
• Relative humidity  Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)  Vibrations  • Vibration resistance during operation acc. to IEC 60068-2-6 2-6  Shock testing  • Shock load during operation  Tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm; 58 Hz to 500 Hz 9.8 m/s² (1 g)  Shock load during operation  Tested to DIN IEC 60068-2-29: 50 m/s² (5 g), 30 ms, 100 shocks  Operating systems  pre-installed operating system  Windows 7 Ultimate, 32-bit/64-bit, MUI; Windows Embedded Standard 7 P, 32-bit, MUI; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  without operating system  • Windows 10 Enterprise  • Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Software  SIMATIC Software  Optional package with SIMATIC WinCC or WinAC RTX  Dimensions  Width of the housing front  Height of housing front  Mounting cutout, width  Mounting cutout, width  • additional mounting depth (optical drive)  Weights  Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)  tested according to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm; 58 Hz to 500	• max.	60 °C	
Vibrations  • Vibration resistance during operation acc. to IEC 60068-2-6 2-6 Shock testing • Shock load during operation • Shock load during operation  Tested to DIN IEC 60068-2-29: 50 m/s² (5 g), 30 ms, 100 shocks  Operating systems  pre-installed operating system  Windows 7 Ultimate, 32-bit/64-bit, MUI; Windows Embedded Standard 7 P, 32-bit, MUI; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  without operating system  • Windows 7  • Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Software  SIMATIC Software  Optional package with SIMATIC WinCC or WinAC RTX  Dimensions  Width of the housing front  Height of housing front  Mounting cutout, width  Mounting cutout, width • additional mounting depth (optical drive)  Weights			
Vibration resistance during operation acc. to IEC 60068-2-6  1 tested according to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm; 58 Hz to 500 Hz 9.8 m/s² (1 g)  Shock testing  Shock load during operation  Tested to DIN IEC 60068-2-29: 50 m/s² (5 g), 30 ms, 100 shocks  Operating systems  Pre-installed operating system  Windows 7 Ultimate, 32-bit/64-bit, MUI; Windows Embedded Standard 7 P, 32-bit, MUI; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Without operating system  Windows 7  Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Software  SIMATIC Software  Optional package with SIMATIC WinCC or WinAC RTX  Dimensions  Width of the housing front  Height of housing front  Mounting cutout, width  Mounting cutout, height  Overall depth  additional mounting depth (optical drive)  Weights	Relative humidity		
2-6 500 Hz 9.8 m/s² (1 g)  Shock testing  Shock load during operation  Tested to DIN IEC 60068-2-29: 50 m/s² (5 g), 30 ms, 100 shocks  Operating systems  pre-installed operating system  Windows 7 Ultimate, 32-bit/64-bit, MUI; Windows Embedded Standard 7 P, 32-bit, MUI; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  without operating system  Windows 7  Windows 7  Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Software  SIMATIC Software  Optional package with SIMATIC WinCC or WinAC RTX  Dimensions  Width of the housing front  Height of housing front  Mounting cutout, width  Mounting cutout, width  Mounting cutout, height  Overall depth  additional mounting depth (optical drive)  Weights	Vibrations		
● Shock load during operation  Tested to DIN IEC 60068-2-29: 50 m/s² (5 g), 30 ms, 100 shocks  Operating systems  pre-installed operating system  Windows 7 Ultimate, 32-bit/64-bit, MUI; Windows Embedded Standard 7 P, 32-bit, MUI; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  without operating system  • Windows 7  • Windows 7  • Windows 10 Enterprise  SIMATIC Software  SIMATIC Software  Optional package with SIMATIC WinCC or WinAC RTX  Dimensions  Width of the housing front  Height of housing front  Mounting cutout, width  Mounting cutout, height  Overall depth  • additional mounting depth (optical drive)  Weights			
Operating systems  pre-installed operating system  Windows 7 Ultimate, 32-bit/64-bit, MUI; Windows Embedded Standard 7 P, 32-bit, MUI; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI without operating system  Yes  pre-installed operating system  Windows 7  Yes; Ultimate 32 bit or 64 bit Yes; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Software  SIMATIC Software  Optional package with SIMATIC WinCC or WinAC RTX  Dimensions  Width of the housing front Height of housing front Height of housing front Mounting cutout, width Mounting cutout, height Overall depth Auditional mounting depth (optical drive)  Weights	Shock testing		
pre-installed operating system  Windows 7 Ultimate, 32-bit/64-bit, MUI; Windows Embedded Standard 7 P, 32-bit, MUI; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI without operating system  Yes  pre-installed operating system  Windows 7  Windows 7  Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Software  SIMATIC Software  Optional package with SIMATIC WinCC or WinAC RTX  Dimensions  Width of the housing front  Height of housing front  Mounting cutout, width  Mounting cutout, width  Mounting cutout, height  Overall depth  additional mounting depth (optical drive)  Weights	<ul> <li>Shock load during operation</li> </ul>	Tested to DIN IEC 60068-2-29: 50 m/s² (5 g), 30 ms, 100 shocks	
bit, MUI; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI without operating system  Pre-installed operating system  Windows 7  Windows 10 Enterprise  Yes; Ultimate 32 bit or 64 bit Yes; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Software  SIMATIC Software  Optional package with SIMATIC WinCC or WinAC RTX  Dimensions  Width of the housing front Height of housing front Height of housing front Mounting cutout, width Mounting cutout, width Mounting cutout, height Overall depth Additional mounting depth (optical drive)  Weights	Operating systems		
pre-installed operating system	pre-installed operating system		
	without operating system	Yes	
● Windows 10 Enterprise  Software  SIMATIC Software  Optional package with SIMATIC WinCC or WinAC RTX  Dimensions  Width of the housing front Height of housing front Mounting cutout, width Mounting cutout, height Overall depth ● additional mounting depth (optical drive)  Weights  Yes; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Yes; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  Software  Optional package with SIMATIC WinCC or WinAC RTX  Dimensions  ### Additional package with SIMATIC WinCC or WinAC RTX  ### Ad	pre-installed operating system		
Sint Software  Sint Software  Optional package with SIMATIC WinCC or WinAC RTX  Dimensions  Width of the housing front  Height of housing front  Mounting cutout, width  Mounting cutout, height  Overall depth  additional mounting depth (optical drive)  Weights  Optional package with SIMATIC WinCC or WinAC RTX  Sint Siman Si	<ul><li>Windows 7</li></ul>	Yes; Ultimate 32 bit or 64 bit	
SIMATIC Software  Optional package with SIMATIC WinCC or WinAC RTX  Dimensions  Width of the housing front  Height of housing front  Mounting cutout, width  Mounting cutout, height  Overall depth  additional mounting depth (optical drive)  Weights  Optional package with SIMATIC WinCC or WinAC RTX  SIMATIC Software  Optional package with SIMATIC WinCC or WinAC RTX  WinAC RTX  380 mm  380 mm  542 mm  Mounting cutout, height  112 mm  26 mm	<ul> <li>Windows 10 Enterprise</li> </ul>	Yes; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI	
Dimensions       Width of the housing front     560 mm       Height of housing front     380 mm       Mounting cutout, width     542 mm       Mounting cutout, height     362 mm       Overall depth     112 mm       ● additional mounting depth (optical drive)     26 mm       Weights	Software		
Width of the housing front 560 mm  Height of housing front 380 mm  Mounting cutout, width 542 mm  Mounting cutout, height 362 mm  Overall depth 112 mm  • additional mounting depth (optical drive) 26 mm  Weights	SIMATIC Software	Optional package with SIMATIC WinCC or WinAC RTX	
Height of housing front  Mounting cutout, width  Mounting cutout, height  Overall depth  additional mounting depth (optical drive)  Weights  380 mm  542 mm  362 mm  112 mm  26 mm	Dimensions		
Mounting cutout, width       542 mm         Mounting cutout, height       362 mm         Overall depth       112 mm         ● additional mounting depth (optical drive)       26 mm         Weights	Width of the housing front	560 mm	
Mounting cutout, height  Overall depth  additional mounting depth (optical drive)  Weights  362 mm  112 mm  26 mm	Height of housing front	380 mm	
Overall depth  • additional mounting depth (optical drive)  Weights  112 mm  26 mm	Mounting cutout, width	542 mm	
additional mounting depth (optical drive)  26 mm  Weights	Mounting cutout, height	362 mm	
Weights	Overall depth	112 mm	
	additional mounting depth (optical drive)	26 mm	
Weight, approx. 16 kg	Weights		
	Weight, approx.	16 kg	

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