SIEMENS

Data sheet

6AV7260-0BH21-0BX3

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; 15" Touch (1280x 800); with front USB Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB cache); PROFIBUS/MPI (CP 5622-compatible); 2 MB buffered SRAM RAID1 2x 320 GB SATA (2.5"); DVD +/-RW 4 GB DDR3 1600 DIMM; 1x PCIE (X16); 1x PCI without expansion (HW) Windows 7 Ultimate 64 bit SP1, MUI (de, en, fr, es, it) without expansion (software) AC 110/230V industrial power supply unit with NAMUR; Power supply cable USA

General information	WILL THAINION, FOWER Supply Cable USA
Product type designation	IPC677D
Display	11 00/70
	15" TET touch
Design of display	15" TFT touch
Screen diagonal	15 in
Resolution (pixels)	1 290 pivol
Horizontal image resolutionVertical image resolution	1 280 pixel
ž	800 pixel
Backlighting • MTBF backlighting (at 25 °C)	80 000 h
Control elements	00 000 11
Input device	Front LISP 2.0 /500mA)
Mouse, at front Touch operation	Front USB 2.0 (500mA)
Touch operation	Vec. analog resistive
Design as touch screen Installation type/mounting	Yes; analog, resistive
Installation type/mounting	For horizontal and vertical mounting
Mounting	For horizontal and vertical mounting
Design control design	Panel PC, built-in unit
central design	Yes
Mounting in portrait format possible	Yes
maximum permissible installation angle +/-	20°
Supply voltage	400/040 V AO (
Type of supply voltage	100/240 V AC (autorange); 24 V DC
Line frequency	V
Rated value 50 Hz	Yes
Rated value 60 Hz	Yes
Mains buffering	40
Mains/voltage failure stored energy time	10 ms
Power loss	ACC W
In full configuration	155 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 mamony may	16 Chyto
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 / 1000 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 Monitoring function via network	Yes Optional
Monitoring function via network EMC	Ориона
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	S
 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 61000-4-5, 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	
interiored infinitity against voltage surge	
asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
	±2 kV acc. to IEC 61000-4-5, surge asymmetric ±1 kV acc. to IEC 61000-4-5, surge symmetric
asymmetric interference	
asymmetric interference symmetric interference	
 asymmetric interference symmetric interference Interference immunity to magnetic fields	±1 kV acc. to IEC 61000-4-5, surge symmetric
asymmetric interference symmetric interference Interference immunity to magnetic fields Interference immunity to magnetic fields at 50 Hz	±1 kV acc. to IEC 61000-4-5, surge symmetric
asymmetric interference symmetric interference Interference immunity to magnetic fields Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference	±1 kV acc. to IEC 61000-4-5, surge symmetric 100 A/m; to IEC 61000-4-8
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	±1 kV acc. to IEC 61000-4-5, surge symmetric 100 A/m; to IEC 61000-4-8
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	±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
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)	±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
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)	±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
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	±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
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	±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
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 UL 508 cULus	±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 Yes
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 UL 508	±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 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 • Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C vibrations • vibration resistance during operation acc. to IEC 60068-2-8 • 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 ves it windows 7 Ultimate, 32-bit/64-bit, MUI; Windows Embedded Standard 7 F 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 Optional package with SIMATIC WinCC or WinAC RTX Dimensions Width of the housing front Mounting cutout, width Mounting cutout, height Overall depth 112 mm	FCC	Yes
Ambient conditions Ambient temperature during operation • min.		
 • min. • max. 45 °C Ambient temperature during storage/transportation • min. • amax. • 60 °C Relative humidity • Relative humidity • Relative humidity • Vibrations • Vibration resistance during operation acc. to IEC 60068-2.6 • Vibrations • Vibration resistance during operation acc. to IEC 60068-2.6 Shock testing • Shock load during operation • Shock load during operation • Tested to DIN IEC 60068-2.6: 10 Hz to 58 Hz: 0.075 mm; 58 Hz 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 • Windows 7 Ultimate, 32-bit/64-bit, MUI; Windows Embedded Standard 7 F bit, MUI; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI without operating system • Windows 7 • Yes; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI Software Optional package with SIMATIC WinCC or WinAC RTX Dimensions Width of the housing front Height of housing front Mounting cutout, width 396 mm Mounting cutout, height 291 mm Overall depth 112 mm 		-,
 • min. • max. 45 °C Ambient temperature during storage/transportation • min. • amax. • 60 °C Relative humidity • Relative humidity • Relative humidity • Vibrations • Vibration resistance during operation acc. to IEC 60068-2.6 • Vibrations • Vibration resistance during operation acc. to IEC 60068-2.6 Shock testing • Shock load during operation • Shock load during operation • Tested to DIN IEC 60068-2.6: 10 Hz to 58 Hz: 0.075 mm; 58 Hz 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 • Windows 7 Ultimate, 32-bit/64-bit, MUI; Windows Embedded Standard 7 F bit, MUI; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI without operating system • Windows 7 • Yes; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI Software Optional package with SIMATIC WinCC or WinAC RTX Dimensions Width of the housing front Height of housing front Mounting cutout, width 396 mm Mounting cutout, height 291 mm Overall depth 112 mm 	Ambient temperature during operation	
Ambient temperature during storage/transportation • min. • max. 60 °C Relative humidity • Relative humidity • Relative humidity • Relative humidity • Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C condensation) Vibrations • Vibration resistance during operation acc. to IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm; 58 Hz 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 Fbit, 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 SIMATIC Software Optional package with SIMATIC WinCC or WinAC RTX Dimensions Width of the housing front Height of housing front 415 mm Mounting cutout, width 396 mm Mounting cutout, width 400 mild package with Simatic Wincc or WinAC RTX Dimensions Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI 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 415 mm Mounting cutout, width 396 mm Mounting cutout, height Overall depth		5 °C
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max. 60 °C Relative humidity Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C condensation) Vibrations Vibration resistance during operation acc. to IEC 60068-2-6 Shock testing Nonck load during operation Shock load during operation Tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm; 58 Hz 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 F bit, MUI; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI without operating system Yes pre-installed operating system 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 396 mm Mounting cutout, height Overall depth 112 mm	Ambient temperature during storage/transportation	
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Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C condensation) Vibrations Vibration resistance during operation acc. to IEC 60068-2-6 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 Pre-installed operating system Windows 7 Ultimate, 32-bit/64-bit, MUI; Windows Embedded Standard 7 Fit, MUI; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI without operating system Windows 7 Ves; 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 415 mm Height of housing front 310 mm Mounting cutout, width 396 mm Mounting cutout, height Overall depth 112 mm	• 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 pre-installed operating system without operating system • Windows 7 Ultimate, 32-bit/64-bit, MUI; Windows Embedded Standard 7 Fit, MUI; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI without operating system • Windows 7 • Windows 10 Enterprise • Windows 7 • 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 396 mm Mounting cutout, height Overall depth 112 mm	Relative humidity	
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2-6	Vibrations	
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pre-installed operating system pre-installed operating system without operating system Pre-installed operating system without operating system Pre-installed operating system Windows 7 Windows 7 Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI 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 396 mm Mounting cutout, height Overall depth 112 mm	Shock testing	
pre-installed operating system Windows 7 Ultimate, 32-bit/64-bit, MUI; Windows Embedded Standard 7 Fbit, 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 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 415 mm Height of housing front 310 mm Mounting cutout, width 396 mm Mounting cutout, height Overall depth 112 mm	 Shock load during operation 	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 396 mm Mounting cutout, height Overall depth 112 mm	Operating systems	
pre-installed operating system • Windows 7 • Windows 10 Enterprise SIMATIC Software SIMATIC Software Width of the housing front Height of housing front Mounting cutout, width Mounting cutout, height Overall depth Yes; Ultimate 32 bit or 64 bit Yes; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI Software Optional package with SIMATIC WinCC or WinAC RTX ### A 15 mm ### A 15 mm ### A 15 mm Mounting cutout, width ### A 291 mm Overall depth 112 mm	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
● Windows 7 ● Windows 10 Enterprise 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 Mounting cutout, width Mounting cutout, height Overall depth Yes; Ultimate 32 bit or 64 bit Yes; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI Software Optional package with SIMATIC WinCC or WinAC RTX ### 15 mm 415 mm 415 mm Mounting cutout, width 396 mm Mounting cutout, height 112 mm	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 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 ### 15 mm 415 mm 415 mm Mounting cutout, width ### 396 mm Mounting cutout, height Overall depth 112 mm	pre-installed operating system	
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 Optional package with SIMATIC WinCC or WinAC RTX 415 mm 415 mm 415 mm 291 mm 112 mm	• Windows 7	Yes; Ultimate 32 bit or 64 bit
SIMATIC Software Optional package with SIMATIC WinCC or WinAC RTX Dimensions Width of the housing front 415 mm Height of housing front 310 mm Mounting cutout, width 396 mm Mounting cutout, height 291 mm Overall depth 112 mm	 Windows 10 Enterprise 	Yes; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI
DimensionsWidth of the housing front415 mmHeight of housing front310 mmMounting cutout, width396 mmMounting cutout, height291 mmOverall depth112 mm	Software	
Width of the housing front Height of housing front Mounting cutout, width Mounting cutout, height Overall depth 415 mm 310 mm 396 mm 291 mm 112 mm	SIMATIC Software	Optional package with SIMATIC WinCC or WinAC RTX
Height of housing front 310 mm Mounting cutout, width 396 mm Mounting cutout, height 291 mm Overall depth 112 mm	Dimensions	
Mounting cutout, width 396 mm Mounting cutout, height 291 mm Overall depth 112 mm	Width of the housing front	415 mm
Mounting cutout, height 291 mm Overall depth 112 mm	Height of housing front	310 mm
Overall depth 112 mm	Mounting cutout, width	396 mm
·	Mounting cutout, height	291 mm
additional mounting depth (ontical drive)	Overall depth	112 mm
additional modificing depth (optical drive)	 additional mounting depth (optical drive) 	26 mm
Weights	Weights	
Weight, approx. 12 kg	Weight, approx.	12 kg

last modified:

6/25/2021