## **SIEMENS**

## **Data sheet**

## 6AV7260-0BA10-0AA0

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 500 GB HDD SATA; 2 GB DDR3 1600 DIMM; 2x PCI without expansion (HW) Windows 7 Ultimate 32 bit SP1, MUI (de, en, fr, es, it) SIMATIC IPC DiagMonitor enclosed AC 110/230V industrial power supply unit with NAMUR; Power supply cable Europe

General information		
Product type designation	IPC677D	
Display		
Design of display	15" TFT touch	
Screen diagonal	15 in	
Resolution (pixels)		
<ul> <li>Horizontal image resolution</li> </ul>	1 280 pixel	
Vertical image resolution	800 pixel	
Backlighting		
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	80 000 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		
Mains/voltage failure stored energy time	10 ms	
Power loss		
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	

Capacity of main memory, max.	16 Gbyte
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	2 Mbyte; 128 KB can be stored in the buffer time; optional
Hardware configuration	2 mayto, 120 No out 50 otolog in the bullor 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	Yes
Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
<ul> <li>Interference immunity against discharge of static</li> </ul>	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC
electricity	61000-4-2
Interference immunity against high-frequency electromagnetic fields	
Interference immunity against high frequency radiation	10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge
	symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
<ul> <li>Interference immunity on signal cables &lt; 30m</li> </ul>	±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 (at the front)	IP65
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
• UL 508	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	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.			
<ul> <li>• min.</li> <li>• max.</li> <li>45 °C</li> <li>Ambient temperature during storage/transportation</li> <li>• min.</li> <li>• amax.</li> <li>• 60 °C</li> <li>Relative humidity</li> <li>• Relative humidity</li> <li>• Relative humidity</li> <li>• Vibrations</li> <li>• Vibration resistance during operation acc. to IEC 60068-2.6</li> <li>• Vibrations</li> <li>• Vibration resistance during operation acc. to IEC 60068-2.6</li> <li>Shock testing</li> <li>• Shock load during operation</li> <li>• Shock load during operation</li> <li>• 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)</li> <li>• Shock load during operation</li> <li>• Tested to DIN IEC 60068-2.29: 50 m/s² (5 g), 30 ms, 100 shocks</li> <li>Operating systems</li> <li>• 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</li> <li>without operating system</li> <li>• Windows 7</li> <li>• Yes; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI</li> <li>Software</li> <li>Optional package with SIMATIC WinCC or WinAC RTX</li> <li>Dimensions</li> <li>Width of the housing front</li> <li>Height of housing front</li> <li>Mounting cutout, width</li> <li>396 mm</li> <li>Mounting cutout, height</li> <li>291 mm</li> <li>Overall depth</li> <li>112 mm</li> </ul>		-,	
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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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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	<ul> <li>Shock load during operation</li> </ul>	Tested to DIN IEC 60068-2-29: 50 m/s² (5 g), 30 ms, 100 shocks	
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● 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	<ul> <li>Windows 10 Enterprise</li> </ul>	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)	<ul> <li>additional mounting depth (optical drive)</li> </ul>	26 mm	
Weights	Weights		
Weight, approx. 12 kg	Weight, approx.	12 kg	

last modified:

6/25/2021