## **SIEMENS**

Data sheet

## 6AV7260-0BB20-2BX6

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

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
<ul> <li>Vertical image resolution</li> </ul>	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	
• Rated value 50 Hz	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	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) CHz, 8 MB Cache, AMT)
Chipset	(4C/8T, 2.3 (3.3) GHz, 8 MB Cache, AMT) Intel DH82C226 PCH
Chipset	
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 $\ge$ 250 GB, optional $\ge$ 500 GB; RAID1 2x 2.5" SATA $\ge$ 320 GB; all internal drives are vibration-damped
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),	2 Mbyte; 128 KB can be stored in the buffer time; optional
max.	
Hardware configuration	
Slots	
● free slots	2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); with card retainer
<ul> <li>Number of PCI slots</li> </ul>	2
Number of PCI slots	2
Interfaces	
PROFIBUS/MPI	Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622
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	
<ul> <li>Industrial Ethernet interface</li> </ul>	Onboard, 2x 10 / 100 / 1000 Mbit, RJ45
— 100 Mbps	Yes
— 1000 Mbps	Yes
Integrated Functions	
Monitoring functions	

• Tomperature menitoring	Yes	
Temperature monitoring	Yes	
Watchdog		
Status LEDs	Yes	
• Fan	Yes	
<ul> <li>Monitoring function via network</li> </ul>	Optional	
EMC		
Interference immunity against discharge of static electric	city	
<ul> <li>Interference immunity against discharge of static electricity</li> </ul>	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	
Interference immunity against high-frequency electromagnetic fields		
<ul> <li>Interference immunity against high frequency radiation</li> </ul>	10 V/m for 80 - 1000 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		
<ul> <li>Interference immunity on supply cables</li> </ul>	±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	
<ul> <li>Interference immunity on signal cables &gt;30m</li> </ul>	±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	
<ul> <li>symmetric interference</li> </ul>	±1 kV acc. to IEC 61000-4-5, surge symmetric	
Interference immunity to magnetic fields		
<ul> <li>Interference immunity to magnetic fields at 50 Hz</li> </ul>	100 A/m; to IEC 61000-4-8	
Emission of conducted and non-conducted interference		
<ul> <li>Interference emission via line/AC current cables</li> </ul>	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	
FCC	Yes	
EMC	CE, EN 61000-6-4:2007, EN 61000-6-2:2005	
Ambient conditions		
Ambient temperature during operation		

<ul> <li>Ambient temperature during operation</li> </ul>	+5 °C to +45 °C with full configuration
Ambient temperature during storage/transportation	
● min.	-20 °C
• max.	0° 00
Relative humidity	
<ul> <li>Relative humidity</li> </ul>	Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)
Vibrations	
<ul> <li>Vibration resistance during operation acc. to IEC 60068-2-6</li> </ul>	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 <sup>2</sup> (1g)
Shock testing	
<ul> <li>Shock load during operation</li> </ul>	Tested to DIN IEC 60068-2-29: 50 m/s <sup>2</sup> (5 g), 30 ms, 100 shocks
Operating systems	
Operating system	Windows 7 Ultimate 32-bit / 64-bit, MUI; Windows 10 IoT Enterprise LTSB 2015, 64-bit, MUI; Windows Embedded Standard 7 P, 32-bit, MUI
pre-installed operating system	Yes
without operating system	Yes
pre-installed operating system	
• Windows 7	Yes; Ultimate 32 bit or 64 bit
<ul> <li>Windows 10 IoT Enterprise</li> </ul>	Yes; LTSB 2015, 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
Overall depth	
<ul> <li>additional mounting depth (optical drive)</li> </ul>	26 mm
Mounting cutout/device depth (W x H x T)	396 mm x 291 mm x 112 mm
Weights	
Panel PC in central design, approx.	12 kg
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