## **SIEMENS**

## **Data sheet**

## 6AV7260-0EM40-0EX3

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 Core I3-4330TE (2C/4T, 2.4 GHz, 4 MB cache, VT-X); PROFIBUS/MPI CP 5622-compatible); 2 MB buffered SRAM Solid-state drive 240 GB 16 GB DDR3 1600 DIMM; 2x PCI without expansion (HW) Windows 10 Enterprise LTSB 2016, 64 bit, MUI (en, de, fr, it, es) for Celeron and I3; without expansion (software) AC 110/230V industrial power supply unit with NAMUR; Power supply cable USA

General information	
Product type designation	IPC677D
Display	
Design of display	15" TFT touch
Screen diagonal	15 in
Resolution (pixels)	
Horizontal image resolution	1 280 pixel
Vertical image resolution	800 pixel
Backlighting	
MTBF backlighting (at 25 °C)	80 000 h
Control elements	
Input device	
Mouse, at front	Front USB 2.0 (500mA)
Touch operation	
Design as touch screen	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
<ul> <li>Rated value 60 Hz</li> </ul>	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) 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	
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	Optional
ЕМС	
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	
<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
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  • Vibrations • vibration resistance during operation acc. to IEC 60068-2-8  • 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  ves  vihodows 7  ves  vihodows 7  ves  vihodows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  without operating system  • Windows 7  ves  ves  ves  ves  ves  ves  ves  ve	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>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>Overall depth</li> <li>112 mm</li> </ul>		-,	
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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: 1/31/2021 🖸