SIEMENS

Data sheet 6AV7260-5JM60-0BX3

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; 22" Multitouch (1920x 1080) 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 Solid-state drive 240 GB 16 GB DDR3 1600 DIMM; ECC; 2x 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	
Product type designation	IPC677D
Display	
Design of display	22" TFT multi-touch
Screen diagonal	22 in
Resolution (pixels)	
 Horizontal image resolution 	1 920 pixel
 Vertical image resolution 	1 080 pixel
Backlighting	
 MTBF backlighting (at 25 °C) 	30 000 h
Control elements	
Touch operation	
 Design as multi-touch screen 	Yes; Projective-capacitive
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	
 Mains/voltage failure stored energy time 	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
Capacity of main memory, max.	16 Gbyte
Data areas and their retentivity	

Silots - free slots - free slots - Number of PCI slots - 2 - Number of Industrial Ethernet interfaces - Number of Industrial Ethernet interfaces - 12,2x RJ45 (independent) - Number of Industrial Ethernet interfaces - 12,2x RJ45 (independent) - Number of PROFINET interfaces - 14, USB 3.0 - Connection for keyboard/mouse - 15, VCOM1 (RS 232), optional: 1x COM2 (RS 232) - parallel interface - 15, VCOM1 (RS 232), optional: 1x COM2 (RS 232) - parallel interface - 15, VCOM1 (RS 232), optional: 1x COM2 (RS 232) - parallel interface - 100 Mbps - 1000 Mbps -	Retentive data area (incl. timers, counters, flags), max.	2 Mbyte; 128 KB can be stored in the buffer time; optional
Free slots 2x PCI, optional: 1x PCI & 1x PCIe (x15); 2x PCIe (x4, x16), with card retainer		2 may to, 120 No out be delice in the bullet time, optional
• Nore selds • Number of PCI stots • 2 **CREATERIST STAPP **Number of PCI stots Interferees **USB 307 **U		
Number of PCI slots 2		2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); with card retainer
Number of PCI alock		
PROFIBESMMP	Interfaces	
Number of Industrial Ethernet interfaces 2, 2x RU45 (independent)		Ontionally onboard, isolated, max, 12 Mbit/s, compatible with CP 5622
Number of PROFINET interfaces 3, Optional		
USB port		
USB / USB USB / USB		
1x COM1 (RS 232), optional: 1x COM2 (RS 232)	·	
parallel Interfaces Video interfaces - Graphics interfaces - Graphics interface - Industrial Ethernet - Indu	·	1x COM1 (RS 232), optional: 1x COM2 (RS 232)
Video interfaces • Graphics interface • Graphics interface • Industrial Ethernet Interface • Interface Interface • Interface Interface • Interface Interface • March John Sample Interface • March John Sample Interface • Interface Immunity against discharge of static electricity • Interface Immunity on signal cables > 30m • Interface Immunity on signal cables > 30m • Interface Immunity against discharge of static electricity • Interface Immunity against or		
Graphics interface	•	
Industrial Ethernet Industrial Ethernet interface — 100 Mbps — 1000 Mbps — 10		1x DisplayPort and 1x DVI-I: 1x VGA via adapter cable (optional)
• Industrial Ethernet Interface	·	
		Onboard, 2x 10 / 100 / 1000 Mbit. RJ45
Therroptodiagnostics/status information Seas diagnostics Yes		
Bus diagnostics transformation Bus diagnostics Yes Monitoring functions * Temperature monitoring * Was * Watchdog * Yes * Status LEDs * Fan * Monitoring function via network * Optional More Interference immunity against discharge of static electricity * Interference immunity against discharge of static electricity * Interference immunity against discharge of static electricity * Interference immunity against high-frequency electromagnetic fields * Interference immunity against high-frequency electromagnetic fields * Interference immunity against high-frequency radiation * Interference immunity against high-frequency electromagnetic fields * Interference immunity against high-frequency electromagnetic fields * Interference immunity to cable-borne interference * Interference immunity to cable-borne interference * Interference immunity on supply cables * Interference immunity on signal cables > 30m * Interference immunity on signal cables > 30	·	
Bus diagnostics **Temperature monitoring** **Temperature monitoring** **Vatchdog** **Vatchdog** **Vatchdog** **Vats* **Status LEDs** **Fan** **Nontroing function via network** **Monitoring function via network** **Interference immunity against bigh frequency rediation via network** **Interference immunity in opapity cables** **Interference immunity on signal cables >30m** **Interference immunity on signal cables >30m*	·	
Monitoring functions • Temperature monitoring • Watchdog • Status LEDs • Fan • Fan • Monitoring function via network • Optional MC Interference immunity against discharge of static electricity • Interference immunity against discharge of static electricity • Interference immunity against discharge of static electricity • Interference immunity against high-frequency electromagnetic fields • Interference immunity against high-frequency radiation • Interference immunity against high-frequency radiation • Interference immunity to cable-borne interference • Interference immunity to cable-borne interference • Interference immunity on supply cables • Interference immunity on supply cables • Interference immunity on signal cables > 30m • Interference immunity on signal cables < 30m • Interference immunity against voltage surge • asymmetric interference • asymmetric interference • asymmetric interference • Interference immunity against voltage surge • asymmetric interference • asymmetric interference • 12 kV acc. to IEC 61000-4-5, surge asymmetric • 24 kV acc. to IEC 61000-4-5, surge, length > 30 m • 1 kV acc. to IEC 61000-4-5, surge, length > 30 m • 1 kV acc. to IEC 61000-4-5, surge asymmetric • 24 kV acc. to IEC 61000-4-5, surge asymmetric • 1 kV acc. to IEC 61000-4-5, surge asymmetric • 1 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 asymmetric • 1 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 asymmetric • 1 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 asymmetric • 1 kV acc. to IEC 61000-4-5, surge asymmetric • 2 kV acc. to IEC 61000-4-5, surge asymmetric • 2 kV acc. to IEC 61000-4-5, surge asymmetric • 2 kV acc. to IEC 61000-4-5, surge asymmetric • 2 kV acc. to IEC 61000-4-5, surge asymmetric • 2 kV acc. to IEC 61000-4-5, surge asymmetric • 2 kV acc. to IEC 61000-4-5, surge as		Yes
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Interference immunity against discharge of static electricity Interference immunity against discharge of static electricity Interference immunity against high-frequency electromagnetic fields Interference immunity against high-frequency radiation Interference immunity against high frequency radiation Interference immunity to cable-borne interference Interference immunity to cable-borne interference Interference immunity on signal cables > 30m Interference immunity against voltage surge Saymmetric: ±2 kV acc. to IEC 61000-4-5, surge asymmetric ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m Interference immunity on signal cables > 30m Interference immunity against voltage surge Saymmetric interference Saymmetric interference Interference immunity against voltage surge Saymmetric interference Saymmetric interference Interference immunity to magnetic fields Interference immunity to magnetic fields at 50 Hz Interference immunity to magnetic fields at 50 Hz Interference emission via line/AC current cables Interference emission via line/AC current cables Interference emission via line/AC current cables IP (at the front) IP (approval) Yes UL approval Ves UL 508 UL 508 CULus Yes CULus Yes CULus Yes CULus Yes CUL (approval) Yes Yes CUL (approval) Yes Yes CUL (approval) Yes Yes CUL (approval) Yes Yes Yes Yes	EMC	
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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 on signal cables < 30m Interference immunity on signal cables < 30m Interference immunity against voltage surge Interference immunity against voltage surge Interference immunity on signal cables < 30m Interference immunity against voltage surge Interference immunity against voltage surge Interference immunity to magnetic fields Interference immunity to magnetic fields 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 Interference emission via protection IP (rear) Interference IP (rear) Interference Ves CE mark Yes UL approval Yes CULus Yes RCM (formety C-TICK) Yes FCC Yes		
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 against high-frequency electromagnetic fiel	ds
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symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric • Interference immunity on signal cables >30m • Interference immunity on signal cables < 30m • Interference immunity on signal cables < 30m • Interference immunity against voltage surge • asymmetric interference • symmetric interference • symmetric 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 • Interference emission via line/AC current cables • Interference minunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference • Interference emission via line/AC current cables • Interference emission via line/AC current cables • EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A • gree and class of protection IP (at the front) IP (at the front) IP (rear) IP 20 tandards, approvals, certificates CE mark UL approval • UL 508 CULus Yes CULus Yes CULus Yes CULUs Yes RCM (formerly C-TICK) Yes FCC Yes	Interference immunity to cable-borne interference	
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• 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 En 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A IP (at the front) IP (at the front) IP (rear) IP (rear) IP 20 tandards, approvals, certificates CE mark Ves UL approval • UL 508 CULus RCM (formerly C-TICK) KC approval Yes FCC Yes FCC Yes Yes FCC Yes	Interference immunity against voltage surge	
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 EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A egree and class of protection IP (at the front) IP (at the front) IP (rear) IP (rear) IP 20 tandards, approvals, certificates CE mark Ves UL approval • UL 508 cULus Yes CULus Yes RCM (formerly C-TICK) Yes FCC Yes	asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
● Interference immunity to magnetic fields at 50 Hz 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 egree and class of protection IP (at the front) IP (at the front) IP (rear) IP (rear) IP 20 tandards, approvals, certificates CE mark Ves UL approval ● UL 508 CULus RCM (formerly C-TICK) Yes FCC Yes FCC Yes	symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
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 regree and class of protection IP (at the front) IP (at the front) IP (rear) IP (rear)		
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CE mark Yes UL approval ■ UL 508 Yes cULus Yes RCM (formerly C-TICK) Yes KC approval Yes FCC Yes	IP (rear)	IP20
UL approval UL 508 UL 508 CULus Pes RCM (formerly C-TICK) Yes KC approval Yes FCC Yes	Standards, approvals, certificates	
● UL 508 CULus Yes RCM (formerly C-TICK) KC approval FCC Yes Yes Yes	CE mark	Yes
CULus Yes RCM (formerly C-TICK) Yes KC approval Yes FCC Yes	UL approval	Yes
RCM (formerly C-TICK) KC approval FCC Yes Yes Yes	• UL 508	Yes
KC approval Yes FCC Yes	cULus	Yes
FCC Yes	RCM (formerly C-TICK)	Yes
	KC approval	Yes
EMC CE, EN 61000-6-4:2007, EN 61000-6-2:2005	FCC	Yes
	EMC	CE, EN 61000-6-4:2007, EN 61000-6-2:2005

Ambient conditions	
Ambient temperature during operation	
• min.	5 °C
• max.	45 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Relative humidity	
Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 $^{\circ}\text{C}$ (no condensation)
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/s 2 (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	Yes
pre-installed operating system	
Windows 7	Yes; Ultimate 32 bit or 64 bit
 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	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	
Weight, approx.	16 kg

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