SIEMENS

Data sheet

6AV7260-1GM30-0BX0

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; 19" Touch (1366x 768); with front USB XEON E3-1268LV3 (4C/8T, 2.3 (3.3) GHz, 8 MB cache VT-D, AMT) Solid-state drive 240 GB 8 GB DDR3 1600 DIMM; 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 Europe

General information	
Product type designation	IPC677D
Display	
Design of display	19" TFT touch
Screen diagonal	19 in
Resolution (pixels)	
 Horizontal image resolution 	1 366 Pixel
 Vertical image resolution 	768 Pixel
Backlighting	
 MTBF backlighting (at 25 °C) 	50 000 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
Rated value 60 Hz	Yes
Mains buffering	
 Mains/voltage failure stored energy time 	10 ms

In full configuration 165 W Processor Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core i3- 4330TE (2C/4T, 2.4 GHz, 4 MB Cache, Xamp); Core i3- 4330TE (2C/4T, 2.4 GHz, 4 MB Cache, AMT) Chipset Intel DH82C226 PCH Graphic Intel DH82C226 PCH Graphics controller Intel HD graphics controller P4600 GT2 (Xeon, Core i3); Intel HD graphics controller (Celeron) Divices DVD1PEREW combi-drive, optional Optical drives DVD1PEREW combi-drive, optional Hard disk 3.5" SATA ≥ 250 GB, optional ≥ 500 GBR, RAID1 2x 2.5" SATA ≥ 320 GB; all internal drives are vibration-damped SSD Yes; ≥ 240 GB optional Memory 2 / 4 / 8 / 16 GB; ECC optional Type of memory DDR3 1600 DIMM Main memory, max. 16 Gbyte Pata areas and their retentivity 2 Retentive data area (incl. timers, counters, flags), max. 2 Mbyle; 128 KB can be stored in the buffer time; optional max. Hardware configuration 2 Stots 2 x PCl; optional: 1x PCl & 1x PCle (x16); 2x PCle (x4, x16); with card retainer • Number of PCl slots 2 PROFIBUS/MPI Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622 Number of PCPINET interfaces 3, Optional	Power loss	
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/RT, 2.3 (3.3) GHz, 8 MB Cache); Xeon E3-1268L v3 (4C/RT, 2.3 (3.3) GHz, 8 MB Cache); Xeon E3-1268L v3 (4C/RT, 2.3 (3.3) GHz, 8 MB Cache); Xeon E3-1268L v3 (4C/RT, 2.3 (3.3) GHz, 8 MB Cache); Xeon E3-1268L v3 (4C/RT, 2.3 MB Cache); Xeon E3-1268L v3 (4C/RT, 2.4 MB Cache); Xeon E3	In full configuration	155 W
4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3) GHz, 8 MB Cache, AMT) Chipset Intel DH82C226 PCH Graphic Intel DH82C226 PCH Graphics controller Intel HD graphics controller P4600 GT2 (Xeon, Core i3); Intel HD graphics controller (Celeron) Dives DVD±R±RW combi-drive, optional Optical drives DVD±R±RW combi-drive, optional Hard disk 32° SATA > 250 GB, optional > 500 GB; RAID1 2x 2.5° SATA > 320 GB; all internal drives are vibration-damped SSD Yes; > 240 GB optional Memory DDR3 1600 DIMM Type of memory DDR3 1600 DIMM Graphics and their retentivity Gaseity of main memory, max. Retentive data area (incl. timers, counters, flags), max. 2 Mbyte; 128 KB can be stored in the buffer time; optional Name Siots 2 x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); with card retainer • Number of PCI stots 2 • Number of PCI stots 2 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 (Processor	
Graphics Graphics controller Intel HD graphics controller P4600 GT2 (Xeon, Core 13); Intel HD graphics controller (Celeron) Drives Optical drives DVD±R±RW combi-drive, optional Hard disk 3.5° SATA ≥ 250 GB, potional ≥ 500 GB; RAID1 2x 2.5° SATA ≥ 250 GB; Core 13); Intel HD graphics controller (Celeron) SSD Yes; ≥ 240 GB optional Memory DDR3 1600 DIMM 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. Retentive data area (incl. timers, counters, flags), max. 2 Mbyte; 128 KB can be stored in the buffer time; optional max. Hardware configuration Store 2 arear retainer Number of PCI slots 2 Number of PCI slots 2 PROFIBUS/MPI Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 6622 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 interfa	Processor type	4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3
Graphics controller Intel HD graphics controller P4600 GT2 (Xeon, Core i3); Intel HD graphics controller (Celeron) Drives DVD±R±RW combi-drive, optional Hard disk 3.5" SATA ≥ 250 GB, optional ≥ 500 GB; RAID1 2x 2.5" SATA ≥ 320 GB; all internal drives are vibration-damped SSD Yes; ≥ 240 GB optional Memory DDR3 1600 DIMM Yppe of memory DDR3 1600 DIMM Capacity of main memory, max. 16 Gbyte Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Pardware configuration 2 Mbyte; 128 KB can be stored in the buffer time; optional Stots 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 PROFIBUS/MPI Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622 Number of PROFINET interfaces 3; Optional USB pot 4x USB 3.0 Connection for keyboard/mouse USB / USB serial interface 1x COM1 (RS 232), optional: 1x COM2 (RS 232) optional LPT1 Video interfaces • Graphics interface 1x DisplayPort and 1x DVI-I; 1x VGA via adapter cable (optional) Interfaces <t< td=""><td>Chipset</td><td>Intel DH82C226 PCH</td></t<>	Chipset	Intel DH82C226 PCH
graphics controller (Celeron) Drives Optical drives DVD±R±RW combi-drive, optional Hard disk 3.5" SATA ≥ 250 GB, optional ≥ 500 GB; RAID1 2x 2.5" SATA ≥ 320 GB; all internal drives are vibration-damped SSD Yes; ≥ 240 GB optional 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. Pardware configuration 2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); with card retainer 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 Vumber of PROFINET interfaces 3.0 Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622 Number of PROFINET interfaces 3.0 Optional LPT1 Video interfaces 1x COM1 (RS 232), optional: 1x COM2 (RS 232) optional. Parallel interface 1x COM1 (RS 232), optional: 1x COM2 (RS 232) optional. Video interfaces 1x COM1 (RS 232), optional. • Industrial Ethernet 1x DisplayPort and 1x DVI-I; 1x VGA via adapter cable (optional)	Graphic	
Optical drives DVD±R±RW combi-drive, optional Hard disk 3.5" SATA ≥ 250 GB, optional ≥ 500 GB; RAID1 2x 2.5" SATA ≥ 320 GB; all internal drives are vibration-damped SSD Yes; ≥ 240 GB optional Memory DDR3 1600 DIMM Main memory 2 / 4 / 8 / 16 GB; ECC optional Capacity of main memory, max. 16 Gbyte Data area and their retentivity Retentive data area (incl. timers, counters, flags), max. Pardware configuration 2 Mbyte; 128 KB can be stored in the buffer time; optional 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 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) optional LPT1 Video interface • Industrial Ethernet 1x DisplayPort and 1x DVI-I; 1x VGA via adapter cable (optional)	Graphics controller	• •
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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. Participation 2 Mbyte; 128 KB can be stored in the buffer time; optional Stots 2 x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); with card retainer • Number of PCI slots 2 • Number of PCI slots 2 • Number of PCI slots 2 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 1x DisplayPort and 1x DVI-I; 1x VGA via adapter cable (optional) Industrial Ethernet • Industrial Ethernet • Industrial Ethernet Onboard, 2x 10 / 100 / 1000 Mbit, RJ45	Memory	
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Retentive data area (incl. timers, counters, flags), max. 2 Mbyte; 128 KB can be stored in the buffer time; optional Hardware configuration Slots Interfaces 2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); with card retainer Number of PCI slots 2 Interfaces 2 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 0ptional LPT1 Video interfaces 1x DisplayPort and 1x DVI-I; 1x VGA via adapter cable (optional) Industrial Ethernet Onboard, 2x 10 / 100 / 1000 Mbit, RJ45	Capacity of main memory, max.	16 Gbyte
Retentive data area (incl. timers, counters, flags), max. 2 Mbyte; 128 KB can be stored in the buffer time; optional Hardware configuration Slots Interfaces 2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); with card retainer Number of PCI slots 2 Vertices 2 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 1x DisplayPort and 1x DVI-I; 1x VGA via adapter cable (optional) Industrial Ethernet Onboard, 2x 10 / 100 / 1000 Mbit, RJ45	Data areas and their retentivity	
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• 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 • Number of PCI slots 2 Interfaces 2 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 1x DisplayPort and 1x DVI-I; 1x VGA via adapter cable (optional) Industrial Ethernet Onboard, 2x 10 / 100 / 1000 Mbit, RJ45	Hardware configuration	
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PROFIBUS/MPI Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622 3; Optional 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 1x DisplayPort and 1x DVI-I; 1x VGA via adapter cable (optional) Industrial Ethernet Onboard, 2x 10 / 100 / 1000 Mbit, RJ45	Number of PCI slots	2
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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	Connection for keyboard/mouse	USB / USB
Video interfaces • Graphics interface 1x DisplayPort and 1x DVI-I; 1x VGA via adapter cable (optional) Industrial Ethernet • Industrial Ethernet interface • Industrial Ethernet interface Onboard, 2x 10 / 100 / 1000 Mbit, RJ45	serial interface	1x COM1 (RS 232), optional: 1x COM2 (RS 232)
Graphics interface Ix DisplayPort and 1x DVI-I; 1x VGA via adapter cable (optional) Industrial Ethernet Industrial Ethernet interface Onboard, 2x 10 / 100 / 1000 Mbit, RJ45	parallel interface	optional LPT1
Industrial Ethernet Onboard, 2x 10 / 100 / 1000 Mbit, RJ45	Video interfaces	
Industrial Ethernet interface Onboard, 2x 10 / 100 / 1000 Mbit, RJ45	Graphics interface	1x DisplayPort and 1x DVI-I; 1x VGA via adapter cable (optional)
	Industrial Ethernet	
— 100 Mbps Yes	Industrial Ethernet interface	Onboard, 2x 10 / 100 / 1000 Mbit, RJ45

— 1000 Mbps

Yes

Integrated Functions Monitoring functions	
 Temperature monitoring 	Yes
Watchdog	Yes
Status LEDs	Yes
• Fan	Yes
 Monitoring function via network 	Optional

Interference immunity against discharge of static electric	city
 Interference immunity against discharge of 	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air
static electricity	discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electroma	gnetic fields
 Interference immunity against high frequency 	10 V/m for 80 - 1000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC
radiation	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	
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
FCC	Yes

EMC

CE, EN 61000-6-4:2007, EN 61000-6-2:2005

Ambient conditions		
Ambient temperature during operation		
 Ambient temperature during operation 	+5 °C to +45 °C with full configuration	
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 $^\circ\mathrm{C}$ (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/s² (1g)	
Shock testing		
 Shock load during operation 	Tested to DIN IEC 60068-2-29: 50 m/s ² (5 g), 30 ms, 100 shocks	
Operating evotome		
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	
Windows 10 Enterprise	Yes; LTSB 2015, 64-bit, MUI	
0.0		
Software SIMATIC Software	Optional package with SIMATIC WinCC or WinAC RTX	
	Optional package with SIMATIC WINCE OF WINAC RTA	
Dimensions		
Width of the housing front	483 mm	
Height of housing front	337 mm	
Overall depth		
 additional mounting depth (optical drive) 	26 mm	
Mounting cutout/device depth (W x H x T)	465 mm x 319 mm x 112 mm	
Weights		
Panel PC in central design, approx.	 14 kg	
last modified:	01/14/2019	