## SIEMENS

## Data sheet

## 6AV7240-3BB14-6KA2

SIMATIC IPC 477D, 15" Touch display; 4 USB (back)+1 USB (front), Ethernet (10/100/1000) Core I3-3217UE; 2x Gbit Ethernet (IE/PN); 2 GB; 1x RS232 and 1x PCIE; WIN Embedded Standard 7, 32-bit DVD; 320 GB HDD SATA; Without SIMATIC software; AC 110/230V industrial power supply unit with NAMUR; Power supply cable for Europe

General information	
Product type designation	IPC477D
	1 64778
Display	
Design of display Screen diagonal	15" TFT touch 15 in
Resolution (pixels)	15 11
	1.290 pixel
<ul> <li>Horizontal image resolution</li> <li>Vertical image resolution</li> </ul>	1 280 pixel 800 pixel
Backlighting	
MTBF backlighting (at 25 °C)	80 000 h
Control elements	
Input device	
Mouse, at front	Front USB 2.0 (500mA)
Keyboard fonts	
Function keys	No
alphanumeric keyboard	No
Touch operation	110
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
distributed design	No
Mounting in portrait format possible	Yes
Supply voltage	
Type of supply voltage	100/240 V AC (autorange) 50/60 Hz; optional 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	24 V DC: max. 68 W, PCIe PCB additionally 5 W
Processor	, <b>,</b> -
Processor type	Celeron 827E (1C/1T, 1.40 GHz, 1.5 MB Cache); Core i3-3217UE (2C/4T, 1.60 GHz, 3 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache, iAMT)
Graphic	
Graphics controller	Intel HD graphics controller
Drives	
Optical drives	Optional: DVD±R±RW combi drive; on rear, can be operated from side
Hard disk	2.5" SATA hard disk, at least 320 GB
SSD	Yes; 1x 240 GB SSD, 1x 480 GB SSD
Memory	
Type of memory	DDR3-SDRAM
Main memory	2 / 4 / 8 GB; ECC optional
Capacity of main memory, max.	8 Gbyte

Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time; optional
Hardware configuration	
Slots	
free slots	1x PCIe (slot with card retainer), 1x slot for CFAST card
Number of PCI slots	1; Optional
<ul> <li>Number of compact flash slots</li> </ul>	2; CFast
Interfaces	
PROFIBUS/MPI	optionally onboard, isolated, max. 12 Mbps, compatible with CP 5611
Number of PROFINET interfaces	3; 3 ports (IRT, with switch, optional)
USB port	4x USB 3.0 high speed/high current
Connection for keyboard/mouse	USB / USB
serial interface	COM1: 1x RS 232, COM2 (optional): 1x RS 232
Video interfaces	
Graphics interface	DVI VGA / DVI integrated
Industrial Ethernet	
Industrial Ethernet interface	Onboard, 2x 10/100 Mbit, RJ45, no plug-in card necessary
Interrupts/diagnostics/status information	
Bus diagnostics	Yes
Integrated Functions	
Monitoring functions	
Temperature monitoring	Yes
Watchdog	Yes
Status LEDs	Yes
• Fan	No
Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	LC 1/1/ contract displayers at the frant in accordance with IEC 04000.4.2
<ul> <li>Interference immunity against discharge of static electricity</li> </ul>	$\pm$ 6 KV contact discharge at the front in accordance with IEC 61000-4-2; $\pm$ 4 kV, housing contact discharge at the back in accordance with IEC 61000-4-2; $\pm$ 8 kV air discharge in accordance with IEC 61000-4-2
Interference immunity against high-frequency electromagne	tic fields
<ul> <li>Interference immunity against high frequency radiation</li> </ul>	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 (to IEC 1000-4-4; 1995; burst); ±1 kV (to IEC 1000-4-5; 1995; surge symm); ±2 kV (to IEC 1000-4-5; 1995; surge asymm)
<ul> <li>Interference immunity on signal cables &gt;30m</li> </ul>	±2 kV acc. to IEC 61000-4-4, burst; length > 30 m; ±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 <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	IP65
IP (at the front) IP (rear)	IP05
Standards, approvals, certificates	II 20
CE mark	Vec: CE marking / EC Declaration of Conformity
UL approval	Yes; CE marking / EC Declaration of Conformity Yes
• UL 508	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
FCC	Yes
EMC	CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A

Use in hazardous areas		
ATEX Zone 2	Yes; Optional	
ATEX Zone 22	Yes; Optional	
IECEx Zone 2	Yes; Optional	
<ul> <li>cULus Class I Zone 2, Division 2</li> </ul>	Yes	
Marine approval		
Germanischer Lloyd (GL)	Yes	
<ul> <li>American Bureau of Shipping (ABS)</li> </ul>	Yes	
<ul> <li>Bureau Veritas (BV)</li> </ul>	Yes	
<ul> <li>Det Norske Veritas (DNV)</li> </ul>	Yes	
<ul> <li>Korean Register of Shipping (KRS)</li> </ul>	Yes	
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	Yes	
<ul> <li>Nippon Kaiji Kyokai (Class NK)</li> </ul>	Yes	
Ambient conditions		
Ambient temperature during operation		
<ul> <li>Ambient temperature during operation</li> </ul>	0 °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 $^\circ\text{C}$ (no condensation)	
Vibrations		
• Vibration resistance during operation acc. to IEC 60068-2-6	IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s <sup>2</sup> (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s <sup>2</sup> (hard disk)	
Shock testing		
<ul> <li>Shock load during operation</li> </ul>	IEC 60068-2-27; 150 m/s <sup>2</sup> , 11 ms (without hard disk); 50 m/s <sup>2</sup> , 30 ms (with hard disk)	
Operating systems		
pre-installed operating system	Windows 7 Ultimate 32-bit / 64-bit, MUI; Windows Embedded Standard 7 P, 32-bit, MUI	
without operating system	Yes; Optional	
pre-installed operating system		
Windows 7	Yes; Ultimate 32 bit or 64 bit	
Software		
SIMATIC Software	Optionally with pre-installed software bundle SIMATIC WinCC RT Advanced / 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	76 mm	
<ul> <li>additional mounting depth (optical drive)</li> </ul>	26 mm	
Weights		
Weight, approx.	4.9 kg	
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