SIEMENS

Data sheet

6AV7240-0CC04-0PE0

SIMATIC IPC 477D, 15" Touch/Key display; 4 USB (back)+1 USB (front), Ethernet (10/100/1000) Celeron U827E; 2x Gbit Ethernet (IE/PN); 4 GB; 1x RS-232; without PCIE; WIN Embedded Standard 7, 32-bit Replaceable without drive; SSD 240 GB Standard (MLC); WinCC RT Adv. V13 SP1 2048PT (incl. Logging and Recipes); WinCC RT Adv. V15 license package; 24 V DC industrial power supply

General information	
Product type designation	IPC477D
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)	50 000 h
Control elements	
Input device	
Mouse, at front	Front USB 2.0 (500mA)
Keyboard fonts	
Function keys	Yes
— Number of function keys with LEDs	36
alphanumeric keyboard	Yes
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
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	·
Mains/voltage failure stored energy time	10 ms
Power loss	
In full configuration	24 V DC: max. 56 W, PCIe APCB additionally 5 W
Processor	
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 momony	2/4/9 CP: ECC entional
Main memory Capacity of main memory, may	2 / 4 / 8 GB; ECC optional
Capacity of main memory, max.	8 Gbyte
Data areas and their retentivity	F40 blocks 400 KD and by should in the buffer times actional
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time; optional
Hardware configuration	
Slots	4 801 / 1 / 31
• free slots	1x PCIe (slot with card retainer), 1x slot for CFAST card
Number of PCI slots	1; Optional
Number of compact flash slots	2; CFast
Interfaces	(i
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	DVI VCA / DVI integrated
Graphics interface Industrial Ethernet	DVI VGA / DVI integrated
Industrial Ethernet interface	Onboard, 2x 10/100 Mbit, RJ45, no plug-in card necessary
Interrupts/diagnostics/status information	onbodia, 27 10/100 Mbit, 1040, 110 plug-ill cala liecessary
	Voe
Bus diagnostics	Yes
Integrated Functions	
Monitoring functions	Voo
Temperature monitoring Week dogs	Yes
Watchdog	Yes
Status LEDs	Yes
Fan Manitoring function via naturals	No Ontional
Monitoring function via network EMC	Optional
Interference immunity against discharge of static electricity	+ 6 KV contact discharge at the front in accordance with IEC 61000 4.2:
 Interference immunity against discharge of static electricity 	± 6 KV contact discharge at the front in accordance with IEC 61000-4-2; ±4 kV, housing contact discharge at the back in accordance with IEC 61000-4-2; ± 8 kV air discharge in accordance with IEC 61000-4-2
Interference immunity against high-frequency electromagne	etic 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	
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)
• Interference immunity on signal cables >30m	± 2 kV acc. to IEC 61000-4-4, burst; length > 30 m; ± 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	400 A love to 150 04000 4.3
Interference immunity to magnetic fields at 50 Hz Training of conducted and non-conducted interference.	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	EN 64000 6.2 EN 64000 6.4 CIODE 20 Clara D. 500 Clara A
Interference emission via line/AC current cables Pagros and place of protection	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Degree and class of protection	IDOF
IP (at the front)	IP30
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	
III. assessed	Yes; CE marking / EC Declaration of Conformity
UL approval	Yes
• UL 508	Yes Yes
• UL 508 cULus	Yes Yes Yes
• UL 508	Yes 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
• cULus Class I Zone 2, Division 2	Yes
Marine approval	
Germanischer Lloyd (GL)	Yes
American Bureau of Shipping (ABS)	Yes
Bureau Veritas (BV)	Yes
Det Norske Veritas (DNV)	Yes
Korean Register of Shipping (KRS)	Yes
Lloyds Register of Shipping (LRS)	Yes
Nippon Kaiji Kyokai (Class NK)	Yes
Ambient conditions	
Ambient temperature during operation	
	0 °C to +45 °C with full configuration
Ambient temperature during operation Ambient temperature during storage/transportation	0 C to +45 C with full configuration
·	20.00
• min.	-20 °C
• max.	60 °C
Relative humidity	T
Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °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/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (hard disk)
Shock testing	
Shock load during operation	IEC 60068-2-27; 150 m/s 2 , 11 ms (without hard disk); 50 m/s 2 , 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	483 mm
Height of housing front	310 mm
Mounting cutout, width	396 mm
Mounting cutout, height	291 mm
Overall depth	76 mm
additional mounting depth (optical drive)	26 mm
Weights	20 11111
	5.7 kg
Weight, approx.	5.7 kg
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