SIEMENS

Data sheet

6AV7240-1CM10-6RA8

SIMATIC IPC 477D with TPM, 15" touch/key display; 4 USB (back) +1 USB (front), Ethernet (10/100/1000); 24 V DC power supply, (not for China); Celeron U827E; 2x Gbit Ethernet (IE/PN); PROFIBUS DP 12; 8 GB with NVRAM; 1x RS232 and 1x PCIE; without operating system; DVD; SSD 480 GB SATA; Without SIMATIC software;

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	
Design	Box 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
Power loss	
In full configuration	24 V DC: max. 56 W, PCIe APCB additionally 5 W
Processor	
Processor type	Intel Core i7-3517UE Intel Core i3-3217UE Intel Celeron 827E
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
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 PCle (slot with card retainer), 1x slot for CFAST card
 Number of PCI slots 	1; Optional
 Number of compact flash slots 	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	COMIT. TATIO 202, COMIZ (Optional). TATIO 202
	DVI VCA / DVI integrated
Graphics interface Industrial Ethernet	DVI VGA / DVI integrated
	anhaard 2v 40 / 400 / 4 000 Mbit D IAE
Industrial Ethernet interface	onboard, 2x 10 / 100 / 1 000 Mbit, RJ45
Integrated Functions	
Monitoring functions	
 Temperature monitoring 	Yes
 Watchdog 	Yes
Status LEDs	Yes
 Monitoring function via network 	Optional
EMC	
Interference immunity against discharge of static electricity	
Interference immunity against discharge of static	± 6 KV contact discharge at the front in accordance with IEC 61000-4-2;
electricity	±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 electromagneti	c 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	
Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	, 10.1200.000
Interference emission via line/AC current cables	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
	LIN 01000-0-0, LIN 01000-0-4, CIOFIN 22 CIASS D, FCC CIASS A
Degree and class of protection	IDAE
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; CISPR 22:2004 Class A; FCC Class A
	OL, LN 01000-0-4, 0101 11 22.2004 01055 A, FOO 01055 A
Use in hazardous areas	Vaccontinual
• 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	
Ambient temperature during operation	0 °C to +50 °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 °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 2 (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s 2 (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
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	450 mm
Mounting cutout, height	290 mm
Overall depth	76 mm
 additional mounting depth (optical drive) 	26 mm
Weights	
Weight, approx.	5.7 kg

last modified: