SIEMENS

Data sheet

6AV7240-5DD05-0KA0

SIMATIC IPC 477D, 19" Touch Display; 4 USB (back)+1 USB (front), Ethernet (10/100/1000) Core I3-3217UE; 1x Gbit Ethernet (IE/PN); 1x PROFINET (IRT, 3 ports); 8 GB; 1x RS-232; without PCIE; WIN Embedded Standard 7 SP1, English, 64-bit; Replaceable without drive; 320 GB HDD SATA; Without SIMATIC software; 24 V DC industrial power supply

General information	
Product type designation	IPC477D
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)
Keyboard fonts	
Function keys	No
 alphanumeric keyboard 	No
Touch operation	
Design as touch screen	Yes; analog, resistive
Installation type/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

24 V DC: max. 65 W, PCIe APCB additionally 5 W
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)
Intel HD graphics controller
Optional: DVD±R±RW combi drive; on rear, can be operated from side
2.5" SATA hard disk, at least 320 GB
Yes; 1x 240 GB SSD, 1x 480 GB SSD
DDR3-SDRAM
2 / 4 / 8 GB; ECC optional
8 Gbyte
512 kbyte; 128 KB can be stored in the buffer time; optional
1x PCle (slot with card retainer), 1x slot for CFAST card
1x PCIe (slot with card retainer), 1x slot for CFAST card 1; Optional
1; Optional
1; Optional
1; Optional 2; CFast
1; Optional 2; CFast 3; 3 ports (IRT, with switch, optional)
1; Optional 2; CFast 3; 3 ports (IRT, with switch, optional) 4x USB 3.0 high speed/high current
1; Optional 2; CFast 3; 3 ports (IRT, with switch, optional) 4x USB 3.0 high speed/high current USB / USB
1; Optional 2; CFast 3; 3 ports (IRT, with switch, optional) 4x USB 3.0 high speed/high current USB / USB
1; Optional 2; CFast 3; 3 ports (IRT, with switch, optional) 4x USB 3.0 high speed/high current USB / USB COM1: 1x RS 232, COM2 (optional): 1x RS 232
1; Optional 2; CFast 3; 3 ports (IRT, with switch, optional) 4x USB 3.0 high speed/high current USB / USB COM1: 1x RS 232, COM2 (optional): 1x RS 232
1; Optional 2; CFast 3; 3 ports (IRT, with switch, optional) 4x USB 3.0 high speed/high current USB / USB COM1: 1x RS 232, COM2 (optional): 1x RS 232 DVI VGA / DVI integrated
1; Optional 2; CFast 3; 3 ports (IRT, with switch, optional) 4x USB 3.0 high speed/high current USB / USB COM1: 1x RS 232, COM2 (optional): 1x RS 232 DVI VGA / DVI integrated
1; Optional 2; CFast 3; 3 ports (IRT, with switch, optional) 4x USB 3.0 high speed/high current USB / USB COM1: 1x RS 232, COM2 (optional): 1x RS 232 DVI VGA / DVI integrated Onboard, 2x 10/100 Mbit, RJ45, no plug-in card necessary
1; Optional 2; CFast 3; 3 ports (IRT, with switch, optional) 4x USB 3.0 high speed/high current USB / USB COM1: 1x RS 232, COM2 (optional): 1x RS 232 DVI VGA / DVI integrated Onboard, 2x 10/100 Mbit, RJ45, no plug-in card necessary
1; Optional 2; CFast 3; 3 ports (IRT, with switch, optional) 4x USB 3.0 high speed/high current USB / USB COM1: 1x RS 232, COM2 (optional): 1x RS 232 DVI VGA / DVI integrated Onboard, 2x 10/100 Mbit, RJ45, no plug-in card necessary

Status LEDs	Yes
● Fan	No
Monitoring function via network	Optional

FMC.

Interference	immunity	against	discharge	of static	electricity

• 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 electromagnetic 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) ± 2 kV acc. to IEC 61000-4-4, burst; length > 30 m; ± 2 kV acc. to

• Interference immunity on signal cables >30m

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)
IP (rear)
IP (at the front)
IP (par)
IP

Standarde	annroval	e cartiticatae
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CE mark	Yes; CE marking / EC Declaration of Conformity
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
Use in hazardous areas	
ATEX Zone 2	Yes; Optional

* IECEx Zone 2 * cULus Class I Zone 2, Division 2 * Yes Marine approval * Germanischer Lloyd (GL) * American Bureau of Shipping (ABS) * Bureau Veritas (BV) * Det Norske Veritas (DNV) * Norean Register of Shipping (KRS) * Lloyds Register of Shipping (LRS) * Nippon Kajij Kyokai (Class NK) **Ambient temperature during operation * Ambient temperature during operation * Ambient temperature during operation * Ambient temperature during operation * min. * 20 °C * max. * 60 °C **Vibrations * Vibration resistance during operation acc. to 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 * Shock load during operation * Windows 7 Ultimate 32-bit / 64-bit, MUI; Windows Embedded Standard 7 P, 32-bit, MUI without operating system * Windows 7 * Yes; Ultimate 32 bit or 64 bit **Dimensions Overall depth * additional mounting depth (optical drive) Operator panel width * Operator panel height 337 mm	• ATEV 7 00	Yes; Optional
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■ max. ■ Max. ■ Vibrations ■ Vibration resistance during operation acc. to IEC 60068-2-6 ■ IEC 60068-2-7; 150 m/s², 11 ms (without hard disk); 50 m/s², 30 ms (with hard disk) ■ Shock load during operation ■ IEC 60068-2-27; 150 m/s², 11 ms (without hard disk); 50 m/s², 30 ms (with hard disk) ■ Operating systems ■ 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 □ Dimensions Overall depth ■ additional mounting depth (optical drive) ○ Operator control unit (W x H) in mm ■ Operator panel width ■ Operator panel height ■ 337 mm	Ambient temperature during storage/transportation	
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• Operator panel height 337 mm	Operator control unit (W x H) in mm	
sporter participation and the same participation	Operator panel width	483 mm
Manufacture discoursing in controlling a configuration (M	Operator panel height	337 mm
x H x D) in mm	Mounting dimensions in centralized configuration (W x H x D) in mm	
• Width 464 mm	• Width	464 mm
Height 318 mm	Height	318 mm
• Depth 76 mm	-	76 mm
Mounting cutout/device depth (W x H x T) 464 mm x 318 mm / 82 mm device depth		464 mm x 318 mm / 82 mm device depth

Weights Panel PC in central design, approx. 6 400 g 02/13/2020 last modified: