6AV7241-5BB00-4AA0

Data sheet

SIMATIC IPC 477E 15" touch (1280 x 800); with front USB; 4 USB (back), Ethernet (10/100/1000); Core i5-6442EQ; 3x Gbit Ethernet (IE/PN); 8 GB; without RS 232/RS485; without PCIe; without operating system; CFast 16 GB, (only optionally with operating system/SW, if no internal mass storage); without internal mass storage; Without SIMATIC software; 24 V DC industrial power supply

Product type designation Display Design of display 15° TFT touch Screen diagonal 15.6 in Resolution (pixels) • Horizontal image resolution 1 280 pixel 800 pixel 88cklighting • MTBF backlighting (at 25° C) 50 000 h Control demonts Input device • Mouse, at front Reyboard fonts • Front USB 2.0 (600mA) Reyboard fonts • Function keys	General information	
Design of display	Product type designation	IPC477E
Screen diagonal 15.6 in	Display	
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 Front USB 2.0 (500mA) Keyboard fonts Front USB 2.0 (500mA) Keyboard fonts Front USB 2.0 (500mA) Vertical elements No No alphanumeric keyboard No 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 Partial format possible Yes Supply Voltage 100/240 V AC (autorange) 50/60 Hz; optional 24 V DC Line frequency Rated value 50 Hz Yes Rated value 50 Hz Yes Rated value 60 Hz Yes Mains buffering Alarison 24 V DC: max. 65 W, PCIe APCB additionally 5 W Processor Processor Processor type Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 8 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-150SL V5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-150SL V5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-150SL V5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-150SL V5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-150SL V5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-150SL V5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-150SL V5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-150SL V5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-150SL V5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-150SL V5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Yep e1 memory DR4-2400 SO-DIMM	Design of display	15" TFT touch
Horizontal image resolution 1 280 pixel	Screen diagonal	15.6 in
■ Vertical image resolution	Resolution (pixels)	
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Input device	Backlighting	
Input device	 MTBF backlighting (at 25 °C) 	50 000 h
Mouse, at front Keyboard fonts Front USB 2.0 (500mA) Keyboard fonts Front USB 2.0 (500mA) No Pouch operation Design as touch screen Mounting Design Panel PC, built-in unit central design Yes distributed design No Mounting in portrait format possible Supply voltage Type of supply voltage Insted value 50 Hz Rated value 50 Hz Rated value 60 Hz Mains buffering Mains buffering Power loss In full configuration Processor Processor type Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, intel HD graphics controller Prives Hard disk 2.5" SATA ≥ 320 GB SSD Yes; 128 / 240 / 480 GB Memory Type of memory DDR4-2400 SO-DIMM	Control elements	
Function keys	Input device	
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Drives Hard disk 2.5" SATA ≥ 320 GB SSD Yes; 128 / 240 / 480 GB Memory DDR4-2400 SO-DIMM	Graphic	
Hard disk 2.5" SATA ≥ 320 GB SSD Yes; 128 / 240 / 480 GB Memory DDR4-2400 SO-DIMM	Graphics controller	Intel HD graphics controller
SSD Yes; 128 / 240 / 480 GB Memory DDR4-2400 SO-DIMM	Drives	
Memory Type of memory DDR4-2400 SO-DIMM	Hard disk	2.5" SATA ≥ 320 GB
Type of memory DDR4-2400 SO-DIMM	SSD	Yes; 128 / 240 / 480 GB
7	Memory	
7	Type of memory	DDR4-2400 SO-DIMM
	Main memory	4 / 8 / 16 GB, ECC optional

Canacity of main memory, may	16 Gbyte
Capacity of main memory, max. Data areas and their retentivity	10 Guyle
Retentive data area (incl. timers, counters, flags), max.	E42 khyta: 420 KD can be stored in the hyffer time; entired
	512 kbyte; 128 KB can be stored in the buffer time; optional
Hardware configuration	
Slots	4 801 / 14 31
• free slots	1x PCle (slot with card retainer), 1x slot for CFAST card
Number of PCI slots	1; Optional
Number of compact flash slots	1; CFast
Interfaces	
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)
USB port	4x USB 3.0
Connection for keyboard/mouse	USB / USB
serial interface	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS
Video interfaces	
Graphics interface	2x DisplayPort
Industrial Ethernet	
Industrial Ethernet interface	3x Ethernet (RJ45)
— 100 Mbps	Yes
— 1000 Mbps	Yes
Interrupts/diagnostics/status information	
Bus diagnostics	Yes
Integrated Functions	
Monitoring functions	
 Temperature monitoring 	Yes
Watchdog	Yes
● Fan	No
Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
Interference immunity against discharge of static electricity	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic	ic fields
Interference immunity against high frequency radiation	10 V/m, 80 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 2.7 GHz; 10 V, 10 kHz 80 MHz 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	10 IAV t- IFO 04000 4 F
asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
symmetric interference Interference immunity to magnetic fields	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	400 A/m to IFC 04000 4 C
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 61000 6 2 EN 61000 6 4 CISPR 22 Class R. FOO Class A
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	ines.
IP (at the front)	IP65
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
• UL 508	Yes
CULus CULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	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, only with Multitouch
• IECEx Zone 2	Yes; Optional, only with Multitouch
 cULus Class I Zone 2, Division 2 	Yes; Optional, only with Multitouch
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 45 °C
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/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/s², 11 ms (without hard disk); 50 m/s², 30 ms (with hard disk)
Operating systems	
pre-installed operating system	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10
without operating system	Yes; Optional
pre-installed operating system	
Windows 7	Yes; Ultimate 64 bit
 Windows 10 Enterprise 	Yes; Windows 10 Enterprise 2016 LTSB, 64 bit, MUI
Software	
SIMATIC Software	Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle
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
 additional mounting depth (optical drive) 	26 mm
Weights	
Weight, approx.	6.8 kg
- O 10 -FFE1	
last modified:	6/25/2021 🗗