SIEMENS

Data sheet 6AV7241-3JC55-0DA0

SIMATIC IPC 477E 15" Multitouch (1366 x 768); 4 USB (back), Ethernet (10/100/1000); Core i3-6102E; 3x Gbit Ethernet (IE/PN); 16 GB; without RS 232/RS485; without PCIe; with ATEX/IECEx; Windows 10 Enterprise 2019 LTSC (64-bit), MUI (en,de,fr,it,es) for Celeron, i3 and i5, Without replaceable mass storage; 256 GB Eco SSD; Without SIMATIC software; 24 V DC industrial power supply

Product type designation		24 V DC industrial power supply
Display 15° TFT multi-touch Screen diagonal 15.6 in Resolution (pixels) • Horizontal image resolution 788 pixel • Vertical image resolution 788 pixel Backlighting • MTBF backlighting (at 25 °C) 50 000 h Control elements • Mouse, at front No • Mouse, at front No • Punction keys No • Punction keys No • Inhammeric keyboard No • Design as multi-touch screen Yes; Projective-capacitive Installation type/mounting For horizontal and vertical mounting Design Panel PC, built-in unit ves sistributed design No Mounting Pronel PC, built-in unit central design Yes distributed design No Mounting in portral fromat 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 60 Hz Yes • Rated value 50 Hz Yes • Rated value 60 Hz <td< td=""><td>General information</td><td></td></td<>	General information	
Design of display	Product type designation	IPC477E
Screen diagonal 15.6 in	Display	
Screen diagonal 15.6 in	Design of display	15" TFT multi-touch
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 No Keyboard fonts Function keys No alphanumeric keyboard No Touch operation Design as multi-fouch screen Yes; Projective-capacitive Installation typo/mounting Mounting For horizontal and vertical mounting Design Panel PC, built-in unit central design Yes distributed design No Mounting in portral 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 60 Hz Yes Mains/voltage failure stored energy time 20 ms Processor Processor Processor type Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442E0 (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT) Craphic Craphic Intel HD graphics controller Drives Hard disk 2.5* SATA ≥ 320 GB SSD Yes; 128 / 240 / 480 GB Memory DDR4-2400 SO-DIMM		15.6 in
Horizontal image resolution Vertical image resolution Reacklighting NTBF backlighting (at 25 °C) So 000 h Control elements Input device Mouse, at front Keyboard fonts Function keys No alphanumeric keyboard No Design as multi-louch screen Posign as multi-louch screen Panel PC, built-in unit Design Design Panel PC, built-in unit Ves Supply voltage Inful carfigure of bright and supply to the green No Mounting in portrait format possible Yes Supply voltage Line frequency Rated value 50 Hz Rated value 50 Hz Rated value 60 Hz Ne Mains buffering Mainsvoltage failure stored energy time Power loss In full canfiguration Zet V DC: max. 88 W, 110 230 V AC Processor Processor type Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache), Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache), Core i5-6442EO (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT) Chipset Intel C236 / Intel H110 Graphic Graphic Graphic Hard disk 2.5* SATA ≥ 320 GB Yes; 128 / 240 / 480 GB Hemory Type of memory DDR4-2400 SO-DIMM		
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Input device		50 000 h
Mouse, at front Keyboard fonts Function keys Investigate and interest to the processor of the processor	Control elements	
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Function keys	•	No
• Function keys • alphanumeric keyboard No Touch operation • Design as multi-touch screen No Possign as multi-touch screen Installation type/mounting Mounting Panel PC, built-in unit Central design Panel PC, built-in unit Central design No Mounting in portrait format possible Supply voltage Supply voltage Installation type/mounting No Mounting in portrait format possible Yes Supply voltage Installation type/mounting No Mounting in portrait format possible Yes Supply voltage Installation type/mounting No Mounting in portrait format possible Yes Supply voltage Insupply voltage Installation type/mounting 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); Core i5-6442EQ (4C/4T, 1.9 (2T, 7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT) Cripset Intel C236 / Intel H110 Graphic Graphic Controller Intel HD graphics controller Drives Hard disk SSD Yes; 128 / 240 / 480 GB Memory Type of memory DDR4-2400 SO-DIMM		
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Mounting	Installation type/mounting	
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Drives Hard disk 2.5" SATA ≥ 320 GB SSD Yes; 128 / 240 / 480 GB Memory DDR4-2400 SO-DIMM		Intel HD graphics controller
Hard disk 2.5" SATA ≥ 320 GB SSD Yes; 128 / 240 / 480 GB Memory DDR4-2400 SO-DIMM	·	
SSD Yes; 128 / 240 / 480 GB Memory DDR4-2400 SO-DIMM		2.5" SATA ≥ 320 GB
Memory Type of memory DDR4-2400 SO-DIMM		
Main memory 4 / 8 / 16 GB, ECC optional	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	398 mm
Height of housing front	257 mm
Mounting cutout, width	382 mm
Mounting cutout, height	241 mm
Overall depth	76 mm
Weights	
Weight, approx.	5.2 kg
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