SIEMENS

Data sheet 6AV7241-5EB44-0FA0

SIMATIC IPC 477E 22" Touch (1920 x 1080); with front USB; 4 USB (back), Ethernet (10/100/1000); Core i5-6442EQ; 3x Gbit Ethernet (IE/PN); 8 GB; 2x RS232/RS485; 1x PCle (x4); Windows7 Ultimate SP1, 64-bit, MUI (de, en, es, fr, it); Without replaceable mass storage; 240 GB solid-state drive SATA Without SIMATIC software; 24 V DC industrial power supply

General information	
Product type designation	IPC477E
Display	
Design of display	22" TFT touch
Screen diagonal	21.5 in
Resolution (pixels)	
 Horizontal image resolution 	1 920 pixel
 Vertical image resolution 	1 080 pixel
Backlighting	
 MTBF backlighting (at 25 °C) 	30 000 h
Control elements	
Input device	
Mouse, at front	No
Keyboard fonts	
Function keys	No
alphanumeric keyboard	No
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	20 ms
Power loss	
In full configuration	24 V DC: max. 74 W, PCIe APCB additionally 5 W
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 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)
Chipset	Intel C236 / Intel H110
Graphic	
Graphics controller	Intel HD graphics controller
Drives	
Hard disk	2.5" SATA ≥ 320 GB
SSD	Yes; 128 / 240 / 480 GB
Memory	
Type of memory	DDR4-2400 SO-DIMM
Main memory	4 / 8 / 16 GB, ECC optional
Capacity of main memory, max.	16 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
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lardware configuration	
Slots	Au DOIs (slat with soul rate in -) Au slat for OFACT
• free slots	1x PCIe (slot with card retainer), 1x slot for CFAST card
Number of PCI slots	1; Optional
Number of compact flash slots	1; CFast
iterfaces 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	William P. Com (No 2027 1227 100), colocidado in tilo 2100
Graphics interface	2x DisplayPort
Industrial Ethernet	
Industrial Ethernet interface	3x Ethernet (RJ45)
— 100 Mbps	Yes
— 1000 Mbps	Yes
nterrupts/diagnostics/status information	
Bus diagnostics	Yes
ntegrated Functions	
Monitoring functions	
Temperature monitoring	Yes
Watchdog	Yes
• Fan	No
Monitoring function via network	Optional
:MC	
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 field	ds
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
a Interference immunity an eignel cables > 20m	
Interference immunity on signal cables >30m Interference immunity on signal cables < 30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4
 Interference immunity on signal cables < 30m 	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)	IP65
IP (rear)	IP20
standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
• UL 508	Yes
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
	Yes; Optional, only with Multitouch

Marine approval Germanischer Lidyd (GL) Germanischer Lidyd (GL) Germanischer Lidyd (GS) Bureau Verlas (BV) Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Lidyds Register of Shipping (KRS) Nippon Kalij Kyokai (Class NK) Ambient conditions Ambient temperature during operation min. min. min. min. max. 45 °C Ambient temperature during storage/transportation min. min. max. 60 °C Relative humidity Relative humidity Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation) Vibrations Vibrations Vibrations Vibration resistance during operation acc. to IEC 80088- 2-8 Shock testing Shock load during operation EC 60088-2-6, 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 (mard disk) Operating systems pre-installed operating system without operating system Periodows 10 Enterprise Windows 7 Visiante (Multi-Language) 64-bit, Windows Embedded Standard 7 Eir 32-bit / 64-bit, Windows 10 Enterprise 2016 LTSB, 64 bit, Multi-Software Opinoally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle Dimensions Wichights Weight, approx. 9.5 kg Meight, approx. 9.5 kg	• cULus Class I Zone 2, Division 2	Yes; Optional, only with Multitouch
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Lloyds Register of Shipping (LRS) Nippon Kaji kyokai (Class NK) Ambient conditions Ambient temperature during operation min. min. min. min. min. min. min. mi	, ,	Yes
Lloyds Register of Shipping (LRS) Nippon Kaji kyokal (Class NK) Yes Ambient conditions Ambient temperature during operation min. min. max. 45 ° C Ambient temperature during storage/transportation min. min. max. 60 ° C Ambient temperature during storage/transportation min. max. 60 ° C Arbient temperature during storage/transportation min. max. 60 ° C Relative humidity Relative humidity Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 ° C (no condensation) Vibrations 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 EC 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 Pre-installed operating system Yes; Optional pre-installed operating system Ves; Optional pre-installed operating system Ves; Windows 7 Ves; Ultimate 64 bit Ves; 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 Height of housing front	Korean Register of Shipping (KRS)	Yes
Nippon Kalji Kyokai (Class NK) Ambient temperature during operation min. max. Afs "C Ambient temperature during storage/transportation min. max. Afs "C Ambient temperature during storage/transportation min. max. Afs "C Relative humidity 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; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s" (with SSD or CFast); 10 Hz to 55 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s" (hard disk) Shock leating Shock load during operation Windows 1 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10 Without operating system Pre-installed operating system Windows 7 Ves; Ultimate 64 bit Windows 7 Ves; Ultimate 64 bit Windows 10 Enterprise Software SIMATIC Software Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle Dimensions Width of the housing front Height of housing front Height of housing front Mounting cutout, width As 22 mm Mounting cutout, height Overall depth Wolgnts		Yes
Ambient temperature during operation • min. • max. 45 °C Ambient temperature during storage/transportation • max. • max. • max. • oo °C Ambient temperature during storage/transportation • min. • max. • oo °C Relative humidity • Relative humidity • Relative humidity • Relative humidity • Vibration resistance during operation acc. to IEC 60068-2-6 Shock testing • Shock load during operation 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: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 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 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 50 H		Yes
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Ambient temperature during storage/transportation Imin. Imi	• min.	0 °C
• min.	• max.	45 °C
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Relative humidity 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; 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 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 Yes; Optional pre-installed operating system Ves; Ultimate 64 bit Windows 10 Enterprise SIMATIC Software Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle Dimensions Width of the housing front Height of housing front Mounting cutout, width Mounting cutout, width 542 mm Mounting cutout, height Overall depth 76 mm Weights	• min.	-20 °C
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; 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 Yes; Optional pre-installed operating system Windows 7 Yes; Ultimate 64 bit Yes; Windows 10 Enterprise SIMATIC Software Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle Dimensions Width of the housing front Mounting cutout, width Mounting cutout, height Overall depth Overall depth 76 mm Weights	• 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 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 Yes; Optional pre-installed operating system Ves; Optional pre-installed operating system Ves; Optional Pre-installed operating system Ves; Optional Software Ves; 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 Mounting cutout, width 542 mm Mounting cutout, height Overall depth Viliana	Relative humidity	
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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 • Windows 7 • Windows 7 • Windows 10 Enterprise SIMATIC Software Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle Dimensions Width of the housing front Height of housing front Mounting cutout, width Mounting cutout, height Overall depth Weights	Shock testing	
pre-installed operating system Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10 vithout operating system Pre-installed operating system Windows 7 Yes; Optional Pre-installed operating system Windows 7 Yes; Ultimate 64 bit 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 Height of housing front Height of housing front Mounting cutout, width 542 mm Mounting cutout, height 362 mm Overall depth 76 mm Weights	Shock load during operation	
## E/P 32-bit / 64-bit, Windows 10 without operating system ✓ Yes; Optional ✓ 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 Height of housing front Mounting cutout, width Mounting cutout, height Overall depth 76 mm Weights	Operating systems	
pre-installed operating system	pre-installed operating system	
● Windows 7 ● 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 Height of housing front Mounting cutout, width Mounting cutout, height Overall depth To mm Weights	without operating system	Yes; Optional
● Windows 10 Enterprise Software SIMATIC Software Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle Dimensions Width of the housing front 560 mm Height of housing front 380 mm Mounting cutout, width 542 mm Mounting cutout, height 362 mm Overall depth 76 mm Weights	pre-installed operating system	
Software SIMATIC Software Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle Dimensions Width of the housing front 560 mm Height of housing front 380 mm Mounting cutout, width 542 mm Mounting cutout, height 362 mm Overall depth 76 mm Weights	Windows 7	Yes; Ultimate 64 bit
SIMATIC Software Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle Dimensions Width of the housing front 560 mm Height of housing front 380 mm Mounting cutout, width 542 mm Mounting cutout, height 362 mm Overall depth 76 mm Weights	 Windows 10 Enterprise 	Yes; Windows 10 Enterprise 2016 LTSB, 64 bit, MUI
Controller CPU 1500S software bundle Dimensions Width of the housing front 560 mm Height of housing front 380 mm Mounting cutout, width 542 mm Mounting cutout, height 362 mm Overall depth 76 mm Weights	Software	
Width of the housing front 560 mm Height of housing front 380 mm Mounting cutout, width 542 mm Mounting cutout, height 362 mm Overall depth 76 mm Weights	SIMATIC Software	
Height of housing front 380 mm Mounting cutout, width 542 mm Mounting cutout, height 362 mm Overall depth 76 mm Weights	Dimensions	
Mounting cutout, width 542 mm Mounting cutout, height 362 mm Overall depth 76 mm Weights	Width of the housing front	560 mm
Mounting cutout, height 362 mm Overall depth 76 mm Weights	Height of housing front	380 mm
Overall depth 76 mm Weights	Mounting cutout, width	542 mm
Weights	Mounting cutout, height	362 mm
	Overall depth	76 mm
Weight, approx. 9.5 kg	Weights	
	Weight, approx.	9.5 kg

6/25/2021

last modified: