SIEMENS

Data sheet

6AV7241-5BB05-0DA0

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; 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

General information	
Product type designation	IPC477E
Display	
Design of display	15" TFT touch
Screen diagonal	15.6 in
Resolution (pixels)	10.0 III
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	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. 65 W, PCle 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

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

Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Verlas (BV) OE Norske Verlas (DNV) Ves OE Norske Verlas (DNV) OE Norske (DNV) OE No	• cULus Class I Zone 2, Division 2	Yes; Optional, only with Multitouch
Germanischer Lloyd (GL) American Bureau of Shipping (ABS) American Bureau of Shipping (ABS) Bureau Vertias (BV) Det Norske Vertias (DNV) Korean Register of Shipping (KRS) Nippon Kajii Kyokal (Class NK) Pes Nippon Kajii Kyokal (Class NK) Ambient temperature during operation min. max. Ambient temperature during operation min. max. As 5 ° C Ambient temperature during storage/bransportation min. max. As 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 Shock testing Shock kesting Shock lead during operation EEC 60068-2-27; 150 m/s², 11 ms (without hard disk); 50 m/s², 30 ms (with hard disk) Pre-installed operating system Pre-in	·	
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Lloyds Register of Shipping (LRS) Anipent Carilli Kyokai (Class NK) Ambient conditions Ambient temperature during operation min. max. 45 °C Ambient temperature during storage/transportation min. max. 60 °C Relative humidity Relative humidit	Det Norske Veritas (DNV)	Yes
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Ambient conditions Ambient temperature during operation • min. • max. 45 °C Ambient temperature during storage/transportation • min. • max. 45 °C Ambient temperature during storage/transportation • min. • ax. 60 °C Relative humidity • Relative humidity • Relative humidity • Relative humidity • Relative nondensation) 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 without operating system Per 32-bit / 64-bit, Windows 10 without operating system • Windows 7 • Windows 10 Enterprise • 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 Height of housing front Height of housing front 415 mm Mounting cutout, width 396 mm Mounting cutout, width 40 difficial mounting depth (optical drive) Wolghts	Lloyds Register of Shipping (LRS)	Yes
Ambient temperature during operation • min. • max. 45 °C Ambient temperature during storage/transportation • min. • max. • max. • 60 °C Relative humidity • Software • 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 • 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 • Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10 without operating system • Windows 10 Enterprise SMATIC 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 396 mm Mounting cutout, width 4 additional mounting depth (optical drive) Weights Weights	Nippon Kaiji Kyokai (Class NK)	Yes
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Max. 60 °C	Ambient temperature during storage/transportation	
Relative humidity Relative humidity 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 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: 4.9 m/s² (hard disk) Pre-installed operating 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 Ves; Optional Pre-installed operating system 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 396 mm Mounting cutout, height Overall depth additional mounting depth (optical drive) Wolghts	• min.	-20 °C
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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 Pre-installed operating system Windows 7 Yes; Optional Pres; 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, width Mounting cutout, height Overall depth additional mounting depth (optical drive) Weights		
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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 396 mm Mounting cutout, height Overall depth Additional mounting depth (optical drive) 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 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) Weights	pre-installed operating system	
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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) Weights	Windows 10 Enterprise	Yes; Windows 10 Enterprise 2016 LTSB, 64 bit, MUI
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	Software	
Width of the housing front Height of housing front Mounting cutout, width Mounting cutout, height Overall depth • additional mounting depth (optical drive) 415 mm 310 mm 396 mm 291 mm 76 mm 26 mm Weights	SIMATIC Software	
Height of housing front Mounting cutout, width Mounting cutout, height 291 mm Overall depth • additional mounting depth (optical drive) Weights	Dimensions	
Mounting cutout, width Mounting cutout, height 291 mm Overall depth additional mounting depth (optical drive) Weights 396 mm 291 mm 76 mm 26 mm	Width of the housing front	415 mm
Mounting cutout, height Overall depth additional mounting depth (optical drive) Weights 291 mm 76 mm 26 mm	Height of housing front	310 mm
Overall depth 76 mm • additional mounting depth (optical drive) 26 mm Weights	Mounting cutout, width	396 mm
• additional mounting depth (optical drive) Weights 26 mm	Mounting cutout, height	291 mm
Weights	Overall depth	76 mm
	 additional mounting depth (optical drive) 	26 mm
Weight, approx. 6.8 kg	Weights	
<u> </u>	Weight, approx.	6.8 kg

last modified: 5/24/2021 🖸