SIEMENS

Data sheet 6AV7241-7KH08-0FA6

	certificate for fitting for 110/250 V AC PS,
General information	
Product type designation	IPC477E
Display	
Design of display	19" TFT multi-touch
Screen diagonal	18.5 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	No
Keyboard fonts	
Function keys	No
alphanumeric keyboard	No
Touch operation	
Design as multi-touch screen	Yes; Projective-capacitive
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. 82 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 i5-6442EQ (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
Suparity of main momory, max.	. o object

512 kbyto: 120 KD can be stored in the buffer time: antiqual
512 kbyte; 128 KB can be stored in the buffer time; optional
1x PCIe (slot with card retainer), 1x slot for CFAST card
1; Optional
1; CFast
3; 3x Ethernet (RJ45)
4x USB 3.0
USB / USB
Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS
2x DisplayPort
3x Ethernet (RJ45)
Yes
Yes
Yes
Yes
Yes
No
Optional
±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC
61000-4-2
ds
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
±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
±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; burst; length > 3 m
±2 kV acc. to IEC 61000-4-5, surge asymmetric
±1 kV acc. to IEC 61000-4-5, surge symmetric
100 A/m; to IEC 61000-4-8
EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
IP65
IP20
Yes
Yes
Yes Yes

IECEX Zone 2 Octus Class I Zone 2, Division 2 Ocermanischer Lloyd (CL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Oct Norsek Veritas (DNV) Norean Register of Shipping (KRS) Nippon Kajil Kyokai (Class NK) Ambient temperature during operation min. max. Ambient temperature during storage/transportation min. max. As 5 °C Ambient temperature during storage/transportation min. max. Relative humidity Relative humidity Relative humidity Relative humidity Occordensation) Wibrations Shock testing Norean Register of Shipping (LRS) Norean Register Shipping (LRS) Norean Register of Shipping (LRS) Norean Register	ATEX Zone 2	Yes; Optional, only with Multitouch
Germanischer Lloyd (GL)	• IECEx Zone 2	Yes; Optional, only with Multitouch
Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Verlatas (BVY) Det Norske Verlatas (DNV) Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Ambient temperature during operation min. max. 45 °C Ambient temperature during storage/transportation min. min. min. e max. 60 °C 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 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: 0.0376 mm; 58 Hz to 200 Hz: 4.9 m/s² (hard disk) Per-installed operating system pre-installed operating system pre-installed operating system pre-installed operating system Yes; Optional pre-installed operating system Yes; Optional President Advanced / 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 294 mm	• cULus Class I Zone 2, Division 2	Yes; Optional, only with Multitouch
American Bureau of Shipping (ABS) Bureau Veritas (BV) Pot Norske Veritas (DNV) Yes Lobyds Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Ambient conditions Ambient temperature during operation max. Ambient temperature during operation min.	Marine approval	
Bureau Veritas (BV) Det Norske Veritas (DNV) Pes Norean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Pes Ambient temperature during operation min. min. min. min. min. min. min. min	Germanischer Lloyd (GL)	Yes
Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Lloyds Register of Shipping (LRS) Nippon Kalji Kyokai (Class NK) Yes Ambient conditions Ambient conditions Ambient emperature during operation min. 0°C max. 45°C Ambient temperature during storage/transportation min20°C Ambient temperature during storage/transportation min20°C Relative humidity Reset according to IEC 60068-2-78, IEC 60068-2-30; 5% to 80% at 25 °C (no condensation) Vibrations Vibrations Relative humidity Relative humidity Reset according to IEC 60068-2-78, IEC 60068-2-30; 5% to 80% at 25 °C (no condensation) Vibrations Relative humidity Reset according to IEC 60068-2-78, IEC 60068-2-30; 5% to 80% at 25 °C (no condensation) Vibrations Relative humidity Reset according to IEC 60068-2-78, IEC 60068-2-30; 5% to 80% at 25 °C (no condensation) Vibrations Relative humidity Reset according to IEC 60068-2-78, IEC 60068-2-30; 5% to 80% at 25 °C (no condensation) Reset according to IEC 60068-2-78, IEC 60068-2-30; 5% to 80% at 25 °C (no condensation) Vibrations Relative humidity	 American Bureau of Shipping (ABS) 	Yes
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Nippon Kajil Kyokai (Class NK)	 Det Norske Veritas (DNV) 	Yes
Nippon Kajji Kyokai (Class NK) Ambient conditions Ambient temperature during operation Inin. In	 Korean Register of Shipping (KRS) 	Yes
Ambient conditions Ambient temperature during operation • min. • max. 45 °C Ambient temperature during storage/transportation • min. • max. 60 °C Relative humidity • Relative humidity • Relative humidity • Relative humidity • Relative humidity • North or sistance 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/s³, 30 ms (with hard disk) Operating system pre-installed operating system Yes; Optional pre-installed operating system • Windows 7 • Windows 7 • Windows 10 Enterprise Shotware SIMATIC Software Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle Width of the housing front 464 mm Height of housing front	 Lloyds Register of Shipping (LRS) 	Yes
Ambient temperature during operation • min. • max. 45 °C Ambient temperature during storage/transportation • min. • max. 60 °C Relative humidity • Relative humidity • Relative humidity • Relative humidity • Relative numidity • Relative numidity • Relative humidity • Relative numidity • Relative humidity • Relative humidity • Relative numidity • Storage numidity • Policy numidity • Storage numidity • Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10 • Windows 7 Yes; Optional pre-installed operating system • Windows 10 Enterprise • Windows 10 Enterprise Storage 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 464 mm Height of housing front	 Nippon Kaiji Kyokai (Class NK) 	Yes
• min. • max. Ambient temperature during storage/transportation • min. • max. • max. • 60 °C Relative humidity • Storage for the following 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 • 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 Yes; Optional pre-installed operating system • Windows 10 Enterprise • Windows 10 Enterprise • Windows 10 Enterprise • Sitmartic Software Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle Dimensions Width of the housing front 464 mm Height of housing front 464 mm Height of housing front • Windows for Sitmare Storage from Sitmare Storage from Sitmare Storage from Sitmare Sitmare Storage Stor	Ambient conditions	
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 • 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 • 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 • Yes; Optional pre-installed operating system • Windows 7 • Windows 10 Enterprise • 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 294 mm 	• max.	45 °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; 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 very cyclional 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 464 mm Height of housing front 294 mm	Ambient temperature during storage/transportation	
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2-6 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 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 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 464 mm Height of housing front 294 mm	Vibrations	
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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 Pre-installed operating system Windows 7 Windows 7 Windows 10 Enterprise 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 464 mm Height of housing front 294 mm	Shock testing	
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E/P 32-bit / 64-bit, Windows 10 without operating system pre-installed operating system ● Windows 7 ● Windows 10 Enterprise 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 294 mm	Operating systems	
pre-installed operating system	pre-installed operating system	
Windows 7 Windows 10 Enterprise 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 294 mm	without operating system	Yes; Optional
● 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 294 mm	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 Height of housing front 294 mm	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 Height of housing front 294 mm	 Windows 10 Enterprise 	Yes; Windows 10 Enterprise 2016 LTSB, 64 bit, MUI
Controller CPU 1500S software bundle Dimensions Width of the housing front 464 mm Height of housing front 294 mm	Software	
Width of the housing front 464 mm Height of housing front 294 mm	SIMATIC Software	
Height of housing front 294 mm	Dimensions	
	Width of the housing front	464 mm
Mounting cutout, width	Height of housing front	294 mm
mounting outous, main	Mounting cutout, width	448 mm
Mounting cutout, height 278 mm	Mounting cutout, height	278 mm
Overall depth 76 mm	Overall depth	76 mm
Weights	Weights	
Weight, approx. 6.6 kg	Weight, approx.	6.6 kg

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