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Data sheet 6AV7251-1JA05-5AA0

SIMATIC IPC477E PRO fully protected IP65; 22" multi-touch (1920 x 1080); for supporting foot (expandable, flange at bottom), 4 USB (back); without USB (front); Ethernet (10/100/1000 Celeron G3902E; 3x Gbit Ethernet (IE/PN); 4 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, CFast 128 GB, (only as option with operating system/SW, if no internal mass storage); without internal mass storage; Without SIMATIC software 24 V DC industrial power supply

General information	
Product type designation	IPC477E
Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	22 in
Display width	497.6 mm
Display height	292.2 mm
Resolution (pixels)	
● Horizontal image resolution	1 920 pixel
● Vertical image resolution	1 080 pixel
Control elements	
Touch operation	
● Design as touch screen	Yes; Projective-capacitive
Installation type/mounting	
Mounting	For mounting on stand or supporting bracket
Design	Panel PC on pedestal or supporting arm
Support arm mounting	No
Stand mounting	Yes; Prepared for pedestal and extension components
Mounting in portrait format possible	No
Supply voltage	
Type of supply voltage	24 V DC
Mains buffering	
● Mains/voltage failure stored energy time	20 ms
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	
SSD	Yes; ≥ 128 GB optional
Storage	
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
Hardware configuration	
Slots	
● Number of PCI slots	0; Different to the built-in unit
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● Number of compact flash slots	1; CFast
Interfaces	
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)
serial interface	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS

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Video interfaces	
● Graphics interface	2x DisplayPort
Industrial Ethernet	
● Industrial Ethernet interface	
— 100 Mbps	Yes
— 1000 Mbps	Yes
Interrupts/diagnostics/status information	
Bus diagnostics	Yes
Integrated Functions	
Monitoring functions	
● Temperature monitoring	Yes
● Fan	No
● Monitoring function via network	Optional
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP65
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
Use in hazardous areas	
● ATEX Zone 2	Yes; for inscription on device rating plate
● ATEX Zone 22	Yes; for inscription on device rating plate
● IECEx Zone 2	Yes; for inscription on device rating plate
● IECEx Zone 22	Yes; for inscription on device rating plate
● CCC Ex	Yes; for inscription on device rating plate
● cULus Class I Zone 2, Division 2	Yes; for inscription on device rating plate
● cULus Class II Division 2	Yes; for inscription on device rating plate
● FM Class I Division 2	No
● FM Class II Division 2	No
Marine approval	
● Germanischer Lloyd (GL)	Yes
● American Bureau of Shipping (ABS)	Yes
● Det Norske Veritas (DNV)	Yes
● Korean Register of Shipping (KRS)	Yes
● Lloyds Register of Shipping (LRS)	Yes
Ambient conditions	
Ambient temperature during operation	
● min.	0 °C
● max.	45 °C
Ambient temperature during storage/transportation	
● min.	-20 °C
● max.	60 °C
Vibrations	
● Vibration resistance during operation acc. to IEC 60068-2-6	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)
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
Dimensions	

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Width of the housing front	527 mm
Height of housing front	329 mm; Without basic adapter

Weights

Weight, approx.	9.3 kg

Approvals / Certificates

General Product Approval

Miscellaneous | CE EG-Konf. | UKCA | UL | KC | Miscellaneous

General Product Approval

RCM | EAC | BIS CRS | Manufacturer Declaration | China RoHS | CE EG-Konf.

General Product Approval | **For use in hazardous locations**

UKCA | IECEx | Miscellaneous | IECEx | ATEX | CCC-Ex

Maritime application

ABS | Bureau Veritas | DNV | LRS | NK / Nippon Kaiji Kyokai | CCS (China Classification Society)

Maritime application | **Dangerous goods** | | | **Environment** | |

KR (Korean Register of Shipping) | Dangerous goods information | Dangerous goods information | Test Summary Report UN 38.3 | Environmental Confirmations | Environmental Confirmations

last modified: 9/10/2026

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