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Data sheet 6AV7251-5GC05-3DA0

SIMATIC IPC477E PRO fully protected IP65; 19" multi-touch (1366 x 768); for support arm (expandable, round pipe) 4 USB (back); without USB (front); Ethernet (10/100/1000 Core i5-6442EQ; 3x Gbit Ethernet (IE/PN); 16 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 8 GB, (only optionally with operating system/SW, if no internal 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	TFT widescreen display, LED backlighting
Screen diagonal	19 in
Display width	409.8 mm
Display height	230.4 mm
Resolution (pixels)	
● Horizontal image resolution	1 366 pixel
● Vertical image resolution	768 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	Yes; Suitable for support arm and extension components (please refer to manual)
Stand mounting	No
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)

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serial interface	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS
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

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Dimensions	
Width of the housing front	462 mm
Height of housing front	292 mm
Weights	
Weight, approx.	8.8 kg

Approvals / Certificates

General Product Approval

For use in hazard-ous locations

Miscellaneous | BIS CRS | China RoHS

For use in hazardous locations

Miscellaneous

Maritime application

Maritime application

NK / Nippon Kaiji Ky-okai

Dangerous goods

Dangerous goods in-formation | Test Summary Report UN 38.3

Environment

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