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Data sheet 6AV7231-0DC31-0BA0

	SIMATIC IPC377G (basic panel PC); 15" singletouch (1366 x 768); 2x 10/100/1000 Mbps Ethernet RJ45; 2x DisplayPort graphic; 4x USB 3.1; 2x M.2 extension slot; 24 V DC power supply Atom x6413E (up to 3.9 GHz); 8 GB RAM; 4x USB+2x COM; without operating system; 256 GB SSD; ;
General information	
Product type designation	IPC377G
Display	
Design of display	15" TFT touch
Screen diagonal	15 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	
Touch operation	
● Design as touch screen	Yes; Analog-resistive
Installation type/mounting	
Mounting	Panel mount and VESA, horizontal and vertical
Design	Panel PC, built-in unit
central design	Yes
Mounting in portrait format possible	Yes
Supply voltage	
Type of supply voltage	24 V DC
Mains buffering	
● Mains/voltage failure stored energy time	10 ms
Processor	
Processor type	Intel Atom X6413E
Storage	
Type of memory	DDR4
Main memory	4 GB, 8 GB,16 GB
Capacity of main memory, max.	16 Gbyte
Interfaces	
Number of industrial Ethernet interfaces	2; 2x RJ45 (independent)
Video interfaces	
● Graphics interface	2x DisplayPort
Industrial Ethernet	
● Industrial Ethernet interface	
— 100 Mbps	Yes
— 1000 Mbps	Yes
Protocols	
Protocols (Ethernet)	
● TCP/IP	Yes
Interrupts/diagnostics/status information	
LED status display	POWER, HDD
Integrated Functions	
Monitoring functions	
● Temperature monitoring	Yes
● Fan	No
Degree and class of protection	
IP (at the front)	IP65

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IP (rear)	IP40
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
BSMI	Yes
Dust protection	Protection against foreign bodies > 1 mm
Ambient conditions	
Ambient temperature during operation	
● min.	0 °C
● max.	50 °C; when installed vertically in horizontal format, vertical inclination maximum 45° or when installed upright in vertical format
Ambient temperature during storage/transportation	
● min.	-20 °C
● max.	70 °C
Relative humidity	
● Operation, max.	85 %
Vibrations	
● Vibration resistance during operation acc. to IEC 60068-2-6	Tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 500 Hz: 9.8 m/s²
Operating systems	
without operating system	Yes
pre-installed operating system	
● Windows 10 Enterprise	Yes
Dimensions	
Width	652 mm
Height	443 mm
Depth	209 mm
Width of the housing front	406 mm
Height of housing front	258.1 mm
Mounting cutout, width	388.39999 mm
Mounting cutout, height	240.5 mm
mounting depth	99.7 mm
Weights	
Weight, approx.	4.8 kg

Approvals / Certificates

General Product Approval

Miscellaneous











General Product Approval				EMV	
		China RoHS	Manufacturer Declaration		

EMV	For use in hazardous locations

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RCM ATEX FM UL IECEx Miscellaneous

For use in hazardous locations	Maritime application

ATEX CCC-Ex ABS BUREAU VERITAS DNV LRS

Maritime application	Industrial Communication

NK / Nippon Kaiji Kyokai RINA CCS (China Classification Society) PROFINET

last modified: 6/10/2026

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