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Data sheet 6AV7231-0CD31-2BA0

SIMATIC IPC377G (basic panel PC); 12" singletouch (1280 x 800); 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); with TPM; 8 GB RAM; 4x USB+2x COM; Windows10 Enterprise 2019 LTSC, 64 bit; MUI (en,de,fr,it,es); 256 GB SSD; ;

General information	
Product type designation	IPC377G
Display	
Design of display	12" TFT touch
Screen diagonal	12 in
Resolution (pixels)	
● Horizontal image resolution	1 280 pixel
● Vertical image resolution	800 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	319.6 mm
Height of housing front	225.59999 mm
Mounting cutout, width	302 mm
Mounting cutout, height	208 mm
mounting depth	91.7 mm
Weights	
Weight, approx.	3.4 kg
Approvals / Certificates	

General Product Approval	For use in hazardous locations				
UL	UL	IECEx	Miscellaneous	FM	CCC-Ex

For use in hazardous locations		
Miscellaneous	ATEX	IECEx

last modified: 6/10/2026

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