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Data sheet 6ES7647-8CA21-2AD1

SIMATIC IPC227G 2x display ports; 3x 10/100/1000 Mbps Ethernet; 4x USB3.0, 2x M.2 expansion slot; 24 V DC industrial power supply Atom X6413E (2-core); 8 GB RAM / with USB flash drive (documentation) without COM; 256 GB Eco SSD; without hardware extension; Windows 11 IoT Enterprise 2024 LTSC, 64-bit, MUI (de, en, fr, it, es) mounting onto standard rail;

General information	
Product type designation	IPC227G
Installation type/mounting	
Mounting	bookmount
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	24 V DC
Rated value (DC)	24 V
Mains buffering	
● Mains/voltage failure stored energy time	20 ms
Input current	
Current consumption (rated value)	0.7 A
Current consumption, max.	1.9 A
Inrush current, max.	2.5 A
Processor	
Processor type	Intel Atom X6413E
Chipset	SoC
Graphic	
Graphics controller	Integrated
Drives	
SSD	Yes; 256 Eco
Storage	
Type of memory	DDR4 SO-DIMM
Main memory	8 GB RAM
Capacity of main memory, max.	8 Gbyte
Interfaces	
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)
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	1x power, 3x user
Integrated Functions	
Monitoring functions	
● Temperature monitoring	Yes
● Fan	No
● Monitoring function via network	Optional
Degree and class of protection	
IP degree of protection	IP40
Standards, approvals, certificates	

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CE mark	Yes
UKCA mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
BSMI	Yes
BIS	Yes
Dust protection	Protection against foreign bodies > 1 mm
Marine approval	
● Germanischer Lloyd (GL)	Yes
● American Bureau of Shipping (ABS)	Yes
● Bureau Veritas (BV)	Yes
● Det Norske Veritas (DNV)	Yes
● Korean Register of Shipping (KRS)	Yes
● Lloyds Register of Shipping (LRS)	Yes
● Nippon Kaiji Kyokai (Class NK)	Yes
● Chinese Classification Society (CCS)	Yes
Ambient conditions	
Ambient temperature during operation	
● min.	0 °C
● max.	50 °C
Ambient temperature during storage/transportation	
● min.	-20 °C
● max.	70 °C
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 200 Hz : 9.8m/s² (1 g) (except DIN Rail) 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s² (0.5 g) (DIN Rail)
Operating systems	
pre-installed operating system	Windows 11 IoT Enterprise LTSC 2024
pre-installed operating system	
● Windows 11	Yes; Windows 11 IoT Enterprise 2024 LTSC
Dimensions	
Width	191 mm
Height	100 mm
Depth	64 mm

Approvals / Certificates

General Product Approval

Miscellaneous | Declaration of Conformity | Manufacturer Declaration | UL

General Product Approval

RCM | EAC | BIS CRS | KC | Manufacturer Declaration | China RoHS

Maritime application

ABS | Bureau Veritas | DNV | LRS | NK / Nippon Kaiji Kyokai | RINA

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Maritime application		Dangerous goods		Environment
CCS (China Classification Society)	KR (Korean Register of Shipping)	Dangerous goods information	Test Summary Report UN 38.3	

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