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Data sheet 6ES7647-8CB21-2AB1

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 (4-core); 8 GB RAM / with USB flash drive (documentation) without COM; 256 GB Eco SSD; without hardware extension; Windows 10 Enterprise 2019 LTSC, 64-bit; MUI (en,de,fr,it,es); mounting onto standard rail;

General information	
Product type designation	IPC227G
Installation type/mounting	
Mounting	DIN rail, wall mounting, portrait mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	24 V DC
Mains buffering	
● Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Intel Atom X6211E / X6413E / X6414RE
Chipset	SoC
Graphic	
Graphics controller	Integrated
Drives	
SSD	Yes; 256 Eco
Storage	
Type of memory	DDR4 SO-DIMM
Main memory	2 / 4 / 8 / 16 Gbyte; inband ECC optional
Capacity of main memory, max.	16 Gbyte
Interfaces	
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)
serial interface	without / 1x / 2x COM (RS 232 / 485 / 422; selectable)
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	
CE mark	Yes
UKCA mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes

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EAC (formerly Gost-R)	Yes
FCC	Yes
BSMI	Yes
BIS	Yes
Dust protection	Protection against foreign bodies > 1 mm
Marine approval	
● 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.	55 °C
Ambient temperature during storage/transportation	
● min.	-20 °C
● max.	60 °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 10 IoT Enterprise 2019 LTSC, 64 bit, MUI
without operating system	Yes; Optional
pre-installed operating system	
● Windows 10	Yes; Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI
● Windows 10 Enterprise	Yes; Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI
Dimensions	
Width	191 mm
Height	100 mm
Depth	64 mm

Classifications

	Version	Classification
eClass	16	19-20-01-02
eClass	14	19-20-01-02
eClass	12	19-20-01-02
eClass	9.1	19-20-01-02
eClass	9	19-20-01-02
eClass	8	19-20-01-02
eClass	7.1	19-20-01-02
eClass	6	19-20-01-02
ETIM	10	EC001413
ETIM	9	EC001413
ETIM	8	EC001413
ETIM	7	EC001413

Approvals / Certificates

General Product Approval

Miscellaneous | Manufacturer Declaration | CE EG-Konf. | UKCA | Declaration of Conformity | UL

General Product Approval	Maritime application

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BIS CRS

China RoHS

Maritime application

NK / Nippon Kaiji Kyokai

CCS (China Classification Society)

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

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