SIEMENS

Data sheet

6ES7647-8CB23-2AC1

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; 2x COM; 256 GB Eco SSD; without hardware extension; Windows 10 Enterprise 2021 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	
Memory	. 55, 255 256	
Type of memory	DDR4 SO-DIMM	
Main memory	2 / 4 / 8 / 16 Gbyte; inband ECC optional	
Capacity of main memory, max.	16 Gbyte	
Hardware configuration	10 Gbyte	
Slots	0.4 M 0	
• free slots	2x M.2	
Interfaces	0.0 50 4 (0.45)	
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)	
USB port	4x USB 3.1	
Connection for keyboard/mouse	USB / USB	
serial interface	without / 1x / 2x COM (RS 232 / 485 / 422; selectable)	
Video interfaces	O. Director Dord	
Graphics interface Indicate: In Theory of the Company of the	2x DisplayPort	
Industrial Ethernet	0.5% (/DIAE)	
Industrial Ethernet interface	3x Ethernet (RJ45)	
— 100 Mbps	Yes	
— 1000 Mbps	Yes	
Protocols		
Protocols (Ethernet)		
• TCP/IP	Yes	
Integrated Functions		
Monitoring functions		
Temperature monitoring	Yes	
Watchdog	Yes	
Status LEDs	1x power, 3x user	
• Fan	No	
Monitoring function via network	Optional	
EMC		
Interference immunity against discharge of static electricity		
 Interference immunity against discharge of static electricity 	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2	
Interference immunity against high-frequency electromagnetic field	s	

• Interference immunity on supply cables \$2 kV acc. to IEC 610004-45, surge symmetric: 2 kV acc. to IEC 610004-45, surge symmetric: 2 kV acc. to IEC 610004-45, surge asymmetric enterior immunity on signal cables < 30m \$1 kV 5 kHz/100 kHz) acc. to IEC 610004-45, burst, length < 30 m; \$2 kV (5 kHz/100 kHz) acc. to IEC 610004-45, burst, length < 30 m; \$2 kV (5 kHz/100 kHz) acc. to IEC 610004-45, burst, length < 30 m; \$2 kV (5 kHz/100 kHz) acc. to IEC 610004-45, burst, length < 30 m; \$2 kV (5 kHz/100 kHz) acc. to IEC 610004-45, burst length < 30 m; \$2 kV (5 kHz/100 kHz) acc. to IEC 610004-45, burst length < 30 m; \$2 kV (5 kHz/100 kHz) acc. to IEC 610004-45, burst length < 30 m; \$2 kV (5 kHz/100 kHz) acc. to IEC 610004-45, burst length < 30 m; \$2 kV (5 kHz/100 kHz) acc. to IEC 610004-45, burst length < 30 m; \$2 kV (5 kHz/100 kHz) acc. to IEC 610004-45, burst length < 30 m; \$2 kV (5 kHz/100 kHz) acc. to IEC 610004-45, burst length < 30 m; \$2 kV (5 kHz/100 kHz) acc. to IEC 610004-45, burst length < 30 m; \$2 kV (5 kHz/100 kHz) acc. to IEC 610004-45, burst length < 30 m; \$2 kV (5 kHz/100 kHz) acc. to IEC 610004-45, burst length < 30 m; \$2 kV (5 kHz/100 kHz) acc. to IEC 610004-45, burst length < 30 m; \$2 kV (5 kHz/100 kHz) acc. to IEC 610004-45, burst length < 30 m; \$2 kV (5 kHz/100 kHz) acc. to IEC 610004-45, burst length < 30 m; \$2 kV (5 kHz/100 kHz) acc. to IEC 610004-45, burst length < 30 m; \$2 kV (5 kHz/100 kHz) acc. to IEC 610004-45, burst length < 30 m; \$2 kV (5 kHz/100 kHz) acc. to IEC 610004-45, burst length < 30 m; \$2 kV (5 kHz/100 kHz) acc. to IEC 610004-45, burst length < 30 m; \$2 kV (5 kHz/100 kHz) acc. to IEC 610004-45, burst length < 30 m; \$2 kV (5 kHz/100 kHz) acc. to IEC 610004-45, burst length < 30 m; \$2 kV (5 kHz/100 kHz) acc. to IEC 610004-45, burst length < 30 m; \$2 kV (5 kHz/100 kHz) acc. to IEC 610004-45, burst length < 30 m; \$2 kV (5 kHz/100 kHz) acc. to IEC 610004-45, burst length < 30 m; \$2 kV (5 kHz/100 kHz) acc. to IEC 610004-45, burst length < 30 kHz (5 kYz) acc. to IEC 610004-45, burs	Interference immunity against high frequency radiation	V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 80 MHz,
symmetric, 22 kV acr. to IEC 610004-5, surge asymmetric Interference immunity on signal cables > 30m Interference immunity on signal cables < 30m Interference immunity against voltage surge * symmetric interference * symm	Interference immunity to cable-borne interference	
Interference immunity on signal cables < 30m	Interference immunity on supply cables	
Interference immunity against voltage surge	 Interference immunity on signal cables >30m 	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
saymmetric interference symmetric interference or interference symmetric interference	• Interference immunity on signal cables < 30m	
e. symmetric interference ±1 kV acc. to IEC 61000-4-5, surge symmetric Interference immunity to magnetic fields 100 Amr. to IEC 61000-4-8 Interference immunity to magnetic fields at 50 Hz 100 Amr. to IEC 61000-4-8 Interference emission of conducted and non-conducted interference Interference emission via line/AC current cables EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Pogges and class of protection IP40 IP4	Interference immunity against voltage surge	
Interference immunity to magnetic fields Interference immunity to magnetic fields at 50 Hz Interference immunity to magnetic fields at 50 Hz Interference emission via line/AC current cables Degree and class of protection IP degree of protection Yes ECC Hard CE mark CC protection Question Ves EAC (formerly Cost-R) Yes ECC Yes ECC Yes ECC Yes CE EN 61000-6-4:2007, EN 61000-6-2:2005 Dust protection Ambient emperature during operation In in Question In in in Question In in Question In in Question In in Question In in in Question In	 asymmetric interference 	±2 kV acc. to IEC 61000-4-5, surge asymmetric
Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference Interference emission via line/AC current cables IP degree of protection CE mark Qultus Yes CULUS Yes CROM (Gomerly C-TICK) Yes CROM (Gomerly Gost-R) Yes EAC (Gomerly Gost-R) Yes EMC CE, EN 61000-8-4-2007, EN 61000-6-2-2005 Dust protection Protection against foreign bodies > 1 mm Ambient conditions Ambient temperature during operation imin. of C im	symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Emission of conducted and non-conducted interference Interference emission via line/AC current cables EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Degree and class of protection IP degree of protection IP degree of protection Standards, approvals, certificates CE mark CULUS Yes CCH mark CCH park CCH park CC approval EAC (formerly Gost-R) FCC Yes EAC (formerly Gost-R) FCC Yes EMC CE, EN 61000-6-4:2007, EN 61000-6-2:2005 Dust protection Protection against foreign bodies > 1 mm Ambient temperature during operation Int. Int	Interference immunity to magnetic fields	
• Interference emission via line/AC current cables	 Interference immunity to magnetic fields at 50 Hz 	100 A/m; to IEC 61000-4-8
Pidegree of protection IP40	Emission of conducted and non-conducted interference	
IP degree of protection Standards, approvals, certificates CE mark CE mark Yes CULUS Pes RCM (formerly C-TICK) Yes RCM (formerly Gost-R) FCC Yes EMC CE, EN 61000-6-4:2007, EN 61000-6-2:2005 Dust protection Ambient conditions Ambient temperature during operation • min. • max. 60° C Ambient temperature during storage/transportation • min. • max. 60° C Relative humidity • Shock load during operation acc. to IEC 60068-2-6 2-6 Shock load during operation • mesistance during operation • vibrations • Vibrations • Vibration resistance during operation • Shock load during operation • Tested according to IEC 60068-2-8: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 500 Hz: 4.9 m/ss² (0.5 g) (Din Rail) • Shock load during operation • Tested according to IEC 60068-2-27: 150 m/s², 11 ms • Operating system pre-installed operating system yes: Optional resistance of the first operation of the storage of	 Interference emission via line/AC current cables 	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Standards, approvals, cortificates CE mark CE mark (Ves CULus RCM (formerly C-TICK) Yes RCA (formerly Gost-R) FCC Yes EAC (formerly Gost-R) FCC Yes EMC Dust protection Protection against foreign bodies > 1 mm Ambient conditions Ambient temperature during operation • min. • max. • 0 °C Ambient temperature during storage/transportation • min. • max. • 20 °C Ambient temperature during storage/transportation • min. • max. • 20 °C Relative humidity • Relative humidity • Relative humidity • Relative humidity • Shock testing • Vibration resistance during operation acc. to IEC 60088-2-8 • Shock testing • Vibration resistance during operation • Windows 10 Tested according to IEC 60068-2-27: 150 m/s², 11 ms Operating system pre-installed operating system pre-installed operating system • Windows 10 • Yes; Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI Yes; Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI Viscitions Yes; Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI Without Operating system • Windows 10 Enterprise • Windows 10 Enterprise 2019 LTSC, 64 bit, MUI Width Height Height Height	Degree and class of protection	
CE mark Yes cULus Yes RCM (formerly C-TICK) Yes KC approval Yes EAC (formerly Gost-R) Yes FCC Yes EMC CE, E.N 61000-6-4-2007, EN 61000-6-2:2005 Dust protection Protection against foreign bodies > 1 mm Ambient temperature during operation ***O**C ***min. 0 °C ***max. 60 °C Ambient temperature during storage/transportation ***O**C ***max. 60 °C ***elative humidity ***C ***elative humidity ***Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation) ***Vibrations ***Vibration resistance during operation acc. to IEC 60068-2-30: May 1 to 19 (EC 60068-2-5: 5 Hz to 8.4 Hz: 0.57 mm, 8.4 Hz to 200 Hz: 9.5 mm 1 to 19 (EC 60068-2-5: 5 Hz to 8.4 Hz: 0.57 mm, 8.4 Hz to 200 Hz: 9.5 mm 1 to 19 (EC 60068-2-27: 150 m/s², 11 ms) ***Shock leading operation ***Tested according to IEC 60068-2-27: 150 m/s², 11 ms ***Operating system ***Yes; Optional ***Peri-installed operating system ***Yes; Optional ***Peri-instal	IP degree of protection	IP40
CULUS Yes RCM (formerly C-TICK) Yes KC approval Yes EAC (formerly Gost-R) Yes FCC Yes EMC CE, EN 61000-6-4:2007, EN 61000-6-2:2005 Dust protection Protection against foreign bodies > 1 mm Ambient conditions Ambient temperature during operation • min. 0 °C • max. 55 °C Ambient temperature during storage/transportation - (C • min. - 20 °C • max. 60 °C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation) Vibrations • Vibration resistance during operation acc. to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 200 Hz: 9.8 m/s² (1.9) (except DIN Raii) 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 9.8 m/s² (1.9) (except DIN Raii) 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 9.8 m/s² (0.5 g) (DIN Raii) Shock testing • Shock load during operation Tested according to IEC 60068-2-27: 150 m/s², 11 ms Operating systems • Windows 10 In Enterprise 2019 LTSC, 64 bit, MUI • Windows 10 Enterprise Yes; Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI <	Standards, approvals, certificates	
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Yes	RCM (formerly C-TICK)	Yes
FCC Yes		Yes
FCC	· ·	Yes
Dust protection		
Dust protection Ambient conditions Ambient temperature during operation		CE. EN 61000-6-4:2007. EN 61000-6-2:2005
Ambient conditions Ambient temperature during operation • min. • max. 55 °C Ambient temperature during storage/transportation • min. • max. 60 °C Relative humidity • Relative humidity • Relative humidity • Vibrations • Vibration resistance during operation acc. to IEC 60068-2-80; Core at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation) Vibrations • Vibration resistance during operation acc. to IEC 60068-2-80; DIR Railly 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 200 Hz: 9.8m/s² (1.9) (except DIN Railly 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s² (0.5 g) (DIN Raill) Shock testing • Shock load during operation • Shock load during operation Tested according to IEC 60068-2-27: 150 m/s², 11 ms Operating systems pre-installed operating system Vindows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI • Windows 10 • Windows 10 • Windows 10 Enterprise Ves; Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI • Windows 10 • Windows 10 Enterprise Ves; Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI • Windows 10 • Windows 10 Enterprise 100 mm	Dust protection	
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Ambient temperature during storage/transportation • min. • max. 60 °C Relative humidity • Relative humidity • Relative humidity • Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation) Vibrations • Vibration resistance during operation acc. to IEC 60068-2-6 2-6 • Vibration resistance during operation acc. to IEC 60068-2-6 2-6 • Shock testing • Shock load during operation • Shock load during operation 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) **Windows 10 Increase according to IEC 60068-2-27: 150 m/s², 11 ms **Operating systems** pre-installed operating system • Windows 10 Increase 2019 LTSC, 64 bit, MUI • Windows 10		
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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) Shock testing ● Shock load during operation Tested according to IEC 60068-2-27: 150 m/s², 11 ms Operating systems pre-installed operating system Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI without operating system Yes; Optional pre-installed operating system Yes; Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI ● Windows 10 Enterprise Yes; Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI Dimensions Yes; Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI Height 191 mm Height 100 mm	,	at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no
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