






Siemens
EcoTech



SIMATIC IPC BX-21A; without mounting accessories; Atom X6413E (2-core) / 4 GB RAM 128 GB Eco SSD without software without USB flash drive (restore image; D&D)

General information	
Product type designation	IPC BX-21A
Installation type/mounting	
Mounting	DIN rail, wall mounting, book mounting, VESA mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	24 V DC
Mains buffering	
• Mains/voltage failure stored energy time	5 ms
Processor	
Processor type	Intel Atom X6413E
Chipset	SoC
Graphic	
Graphics controller	Integrated
Drives	
SSD	Yes; 128 / 256 GB
Memory	
Type of memory	LPDDR4 onboard
Main memory	8 / 16 GB RAM
Capacity of main memory, max.	16 Gbyte
Interfaces	
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)
USB port	4x USB 3.1 Gen2
Connection for keyboard/mouse	USB / USB
Video interfaces	
• Graphics interface	1x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	3x Ethernet (RJ45)
— 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	
• Watchdog	Yes
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 fields	
• Interference immunity against high frequency radiation	10 V/m for 80 - 2 700 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m for 2.7 - 6 GHz, 80 % AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80 % AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV according to IEC 61000-4-4, burst
• Interference immunity on signal cables >30m	±2 kV according to IEC 61000-4-4, burst

• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4, Burst
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, line to earth
• symmetric interference	±1 kV acc. to IEC 61000-4-5, line to line
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	IEC 61000-6-3 + A1/ CISPR 32 + A1
Degree and class of protection	
IP degree of protection	IP40
Standards, approvals, certificates	
Siemens Eco Profile (SEP)	Siemens EcoTech
CE mark	Yes
UL approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
FCC	Yes
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4
Dust protection	Protection against foreign bodies > 1 mm
Ecological footprint	
• environmental product declaration	Yes
Global warming potential	
— global warming potential, (total) [CO2 eq]	293 kg
— global warming potential, (during production) [CO2 eq]	18.3 kg
— global warming potential, (during operation) [CO2 eq]	278 kg
— global warming potential, (after end of life cycle) [CO2 eq]	-3.65 kg
Ambient conditions	
Ambient temperature during operation	
• min.	-20 °C
• max.	50 °C
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °C
Relative humidity	
• Relative humidity	max. 85% at 30 °C, no condensation, gradient ≤ 10 °C/h
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/s ² (1 g) (except DIN Rail) 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s ² (0.5 g) (DIN Rail)
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27: 150 m/s ² , 11 ms
Operating systems	
pre-installed operating system	Windows 10 Enterprise 2021 LTSC 64-bit, MUI
without operating system	Yes; Optional
Dimensions	
Width	85 mm
Height	104 mm
Depth	45 mm
Approvals / Certificates	
General Product Approval	
Manufacturer Declaration	    
General Product Approval	Environment



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