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Data sheet 6AG4021-0BD00-2AB2

Siemens EcoTech

SIMATIC IPC BX-21A; without mounting accessories; Atom X6413E (4-core) / 16 GB RAM 256 GB Eco SSD Windows 10 IoT Enterprise 2021 LTSC, 64-bit, MUI (de, en, es, fr, it) with 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 GB / 256 GB / 512 GB / 1 TB
Storage	
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)
Video interfaces	
● Graphics interface	1x 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
Degree and class of protection	
IP degree of protection	IP40
Standards, approvals, certificates	
Siemens Eco Profile (SEP)	Siemens EcoTech
CE mark	Yes
UKCA mark	Yes
UL approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
FCC	Yes
Dust protection	Protection against foreign bodies > 1 mm
Ecological footprint	
● environmental product declaration	Yes

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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.	55 °C
Ambient temperature during storage/transportation	
● min.	-40 °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 10 Enterprise 2021 LTSC, 64 bit, MUI Windows 11 Enterprise 2024 LTSC, 64 bit, MUI SIMATIC Industrial OS Industrial Edge - SIMATIC
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			Dangerous goods		Environment
BIS CRS		China RoHS	Dangerous goods information	Test Summary Report UN 38.3	

Environment

China RoHS

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