

SIMATIC IPC BX-53A 10th generation box PC for global market Intel Core i3-10100E (4C/8T, 3.2 (3.8) GHz, 6 MB cache); 512 GB SSD; 16 GB DDR4 SDRAM; compact chassis, 350 W; 2 additional COMs and 4 additional USBs; Windows 10 IoT Enterprise 2021 LTSC, multi-language (en, de, fr, it, es), 64-bit; [for Core i3 / i5 processors]; Windows 10 IoT Enterprise 2021 LTSC, multi-language (en, de, fr, it, es), 64-bit; [for processor Core i7 / i9]

General information	
Product type designation	SIMATIC IPC BX-53A
Installation type/mounting	
Mounting	For horizontal and vertical mounting
Supply voltage	
Type of supply voltage	100 - 240 V AC
Line frequency	<ul style="list-style-type: none"> Rated value 50 Hz Yes Rated value 60 Hz Yes
Processor	
Processor type	Pentium 6400 (2C/4T, 4.0 GHz, 4 MB Cache) / Intel Core i3-10100E (4C/8T, 3.2 (3.8) GHz, 6 MB Cache) / Intel Core i5-10500E (6C/12T, 3.1 (4.2) GHz, 12 MB Cache) / Intel Core i7-10700E (8C/16T, 2.9 (4.5) GHz, 16 MB Cache)
Chipset	Intel Q470
Drives	
Hard disk	HDD & SSD
Memory	
Type of memory	4x non-ECC UDIMM slots for DDR4
Main memory	4G up to 128G DDR4
Capacity of main memory, max.	128 Gbyte
Hardware configuration	
Slots	<ul style="list-style-type: none"> free slots 2x PCI, 3x PCIe*4, 2x PCIe*16
Interfaces	
USB port	4x USB3.2 Gen1, 6x USB2.0, 1x vertical USB 2.0 and 1x vertical USB 3.0 on mainboard
Connection for keyboard/mouse	PS/2 or USB; PS/2 or USB
serial interface version	3x RS232
Multimedia	<ul style="list-style-type: none"> Audio In/Out Yes Microphone In Yes
Video interfaces	
Graphics interface	1x VGA, 1x DVI-D, 1x HDMI
Industrial Ethernet	
Industrial Ethernet interface	<ul style="list-style-type: none"> 100 Mbps Yes 1000 Mbps Yes
Interrupts/diagnostics/status information	
LED status display	POWER, HDD
EMC	
Interference immunity against discharge of static electricity	<ul style="list-style-type: none"> Interference immunity against discharge of static electricity ±4 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	<ul style="list-style-type: none"> Interference immunity against high frequency radiation 10 V/m for 80 - 1 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m for 1.4 - 2 GHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m for 2 - 6 GHz, 80 % AM acc. to IEC 61000-4-3; 10 V for 150 kHz - 80 MHz, 80 % AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	<ul style="list-style-type: none"> Interference immunity on supply cables ±2 kV (according to IEC 61000-4-4, burst); ±1 kV (according to IEC 61000-4-5, surge pulse/line to line); ±2 kV (according to IEC 61000-4-5, surge pulse/line to

<ul style="list-style-type: none"> Interference immunity on signal cables >30m 	ground) ±2 kV acc. to IEC 61000-4-4, burst; length > 30 m; ±2 kV shielding-to-earth, acc. to IEC 61000-4-5, surge; length > 30 m
<ul style="list-style-type: none"> Interference immunity on signal cables < 30m 	± 1 kV; in accordance with IEC 61000-4-4; burst; length < 30 m
Interference immunity against voltage surge	
<ul style="list-style-type: none"> asymmetric interference symmetric interference 	±2 kV acc. to IEC 61000-4-5, line to earth ±1 kV acc. to IEC 61000-4-5, line to line
Emission of conducted and non-conducted interference	
<ul style="list-style-type: none"> Interference emission via line/AC current cables 	EN 61000-6-4 CAN/CSA CISPR32 Class A, EN 55032 Class A; FCC Class A;
Compliance with line harmonic distortion limits	
<ul style="list-style-type: none"> Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3 	Yes; EN 61000-3-2 Class D; EN 61000-3-3

Degree and class of protection	
IP (at the front)	IP20
IP (rear)	IP20

Standards, approvals, certificates	
CE mark	Yes
UKCA mark	Yes
UL approval	Yes
KC approval	Yes
FCC	Yes
BSMI	Yes
BIS	Yes

Ambient conditions	
Ambient temperature during operation	
<ul style="list-style-type: none"> min. max. 	0 °C 45 °C

Operating systems	
pre-installed operating system	Windows 10 IoT Enterprise 2021 LTSC, 64 bit, MUI
without operating system	Yes

Dimensions	
Width	380 mm
Height	164 mm
Depth	316 mm

Approvals / Certificates	
General Product Approval	



[KC](#)

last modified:

9/24/2025