

SIMATIC IPC BX-39A; Intel(R) UHD graphic onboard; 4x USB 3.2; Ethernet (10/100/1000); PCIe (optional) Intel Xeon W-11155MLE (1.8/3.1 GHz, 4C/8T); DIN-rail mounting with 1 x PCIe; 8 GB; 1st mass storage: M.2 SSD 256 GB Eco; without 2nd mass storage: Windows 10 Enterprise 2021 LTSC for Celeron, Xeon W-11155MLE, Xeon W-11555MLE; with 1 x Com (RS232/485/422); Restore stick image with D&D and software image (if selected) only via OSD (Online portal) 24 V DC industrial power supply (NAU, isolated, bridging time);

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® Celeron 6600HLE (2.1 GHz, 2C/2T) Intel® Xeon W-11155MLE (1.8/3.1 GHz, 4C/8T) Intel® Xeon W-11555MLE (1.9/4.4 GHz, 6C/12T) Intel® Xeon W-11865MLE (1.5/4.5 GHz, 8C/16T)
Chipset	Intel® RM590E
Graphic	
Graphics controller	Intel HD graphics controller
Drives	
Hard disk	M.2 SSD ≥ 240 GB
SSD	Yes; ≥ 240 GB optional
Memory	
Type of memory	DDR4-3200 SO-DIMM
Main memory	4 / 8 / 16 / 32 GB; ECC optional
Capacity of main memory, max.	32 Gbyte
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time; optional
Hardware configuration	
Slots	
• free slots	2x PCIe; optional: 1x PCIe (x4); 2x PCIe (x1, x4), with card retainer
• Number of PCI slots	2; Optional
• Number of compact flash slots	0
Interfaces	
Number of industrial Ethernet interfaces	4; 4x Gigabit Ethernet (IE/PN)
USB port	4x USB 3.2 Gen2
Connection for keyboard/mouse	USB / USB
serial interface	1x / 2x (optional) COM (RS 232 / 485 / 422; selectable)
Video interfaces	
• Graphics interface	2x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	4x Ethernet (RJ45)
— 100 Mbps	Yes
— 1000 Mbps	Yes
Interrupts/diagnostics/status information	
Bus diagnostics	Yes
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Status LEDs	1x power, 3x user

- Fan
- Monitoring function via network

No
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 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 to 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 acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
- Interference immunity on signal cables >30m ±2 kV acc. to IEC 61000-4-4, burst; ±2 kV acc. to IEC 61000-4-5, surge
- 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, surge asymmetric
- symmetric interference ±1 kV acc. to IEC 61000-4-5, surge symmetric

Interference immunity to magnetic fields

- Interference immunity to magnetic fields at 50 Hz 100 A/m; to IEC 61000-4-8

Emission of conducted and non-conducted interference

- Interference emission via line/AC current cables IEC 61000-6-3, IEC 61000-6-4, CAN/CSA CISPR 32 Class B, FCC Class A

Degree and class of protection

IP degree of protection IP20

Standards, approvals, certificates

CE mark	Yes
UL approval	Yes
• UL 508	No
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
BSMI	No; in preparation
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, CAN/CSA CISPR 32 Class B, EN 55032 Class B, FCC Class A, KN32

Use in hazardous areas

- ATEX Zone 2 No; in preparation
- IECEx Zone 2 No; in preparation
- cULus Class I Zone 2, Division 2 No; in preparation

Marine approval

- Germanischer Lloyd (GL) No; in preparation
- American Bureau of Shipping (ABS) No; in preparation
- Bureau Veritas (BV) No; in preparation
- Det Norske Veritas (DNV) No; in preparation
- Korean Register of Shipping (KRS) No; in preparation
- Lloyds Register of Shipping (LRS) No; in preparation
- Nippon Kaiji Kyokai (Class NK) No; in preparation

Ambient conditions

Ambient temperature during operation

- Ambient temperature during operation 0 °C to 55 °C

Ambient temperature during storage/transportation

- min. -40 °C
- max. 70 °C

Altitude during operation relating to sea level

- Installation altitude above sea level, max. 3 000 m

Relative humidity

- Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5% to 80% at 25 °C (no condensation), Storage: 5% to 95% at 25 °C (no condensation)
- Operation, max. 85 %

Vibrations

- Vibration resistance during operation acc. to IEC 60068-2-6 tested according to IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s²

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 Enterprise 2021 LTSC, Industrial OS
without operating system	Yes; Optional
pre-installed operating system	
• Windows 7	No
• Windows 10 Enterprise	Yes; Windows 10 Enterprise 2021 LTSC
Software	
SIMATIC Software	Optional package with SIMATIC WinCC
Mechanics/material	
Enclosure material (front)	Continuous-cast aluminum
Dimensions	
Width	262 mm
Height	139.7 mm
Depth	62.6 mm
last modified:	1/20/2023 