



SIMATIC IPC BX-39A; Intel(R) UHD graphic onboard; 4x USB 3.2; Ethernet (10/100/1000); PCIe (optional) Intel Xeon W-1155MLE (1.9/4.4 GHz, 6C/12T); wall mounting with 2 x PCIe; 8 GB; M.2 SSD 240 GB without 2nd mass storage; Windows 10 IoT Enterprise 2021 LTSC for Celeron Xeon W-1155MLE, Xeon W-1155MLE; without option 1; USB restore stick with D&D and software image (if selected) 24 V DC industrial power supply (NAU, isolated, bridging time);

General information	
Product type designation	BX-39A
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
Rated value (DC)	24 V
Mains buffering	
<ul style="list-style-type: none"> <li>Mains/voltage failure stored energy time</li> </ul>	20 ms
Input current	
Current consumption (rated value)	5 A; at 24 V DC and without load
Current consumption, max.	5 A; At 24 V DC
Inrush current, max.	75 A; max. 75 A for 0.2 ms max. 9 A for further 5 ms max. 8 A for further 40 ms
Processor	
Processor type	Intel® Celeron 6600HLE (2.1 GHz, 2C/2T) Intel® Xeon W-1155MLE (1.8/3.1 GHz, 4C/8T) Intel® Xeon W-1155MLE (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® UHD Graphics 16 EUs (for Intel® Celeron® 6600HLE and Intel® Xeon® W-1155MLE) / Intel® UHD Graphics 32 EUs (for Intel® Xeon® W-1155MLE and Intel® Xeon® W-11865MLE)
Drives	
Hard disk	M.2 SSD 256 GB Eco
SSD	Yes; 256 GB Eco
Memory	
Type of memory	DDR4-3200 SO-DIMM
Main memory	4 / 8 / 16 / 32 GB; ECC optional
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	
<ul style="list-style-type: none"> <li>Number of PCI slots</li> <li>Number of compact flash slots</li> </ul>	2 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	
<ul style="list-style-type: none"> <li>Graphics interface</li> </ul>	2x DisplayPort (DP1.4-capable): maximum 4096 × 2304 / 60 Hz / 36 bit
Industrial Ethernet	
<ul style="list-style-type: none"> <li>Industrial Ethernet interface                             <ul style="list-style-type: none"> <li>— 100 Mbps</li> <li>— 1000 Mbps</li> </ul> </li> </ul>	4x Ethernet (RJ45) Yes Yes
Interrupts/diagnostics/status information	

LED status display	1x power, 3x user
Bus diagnostics	Yes
<b>Integrated Functions</b>	
<b>Monitoring functions</b>	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	No
• Monitoring function via network	Optional
<b>EMC</b>	
<b>Interference immunity against discharge of static electricity</b>	
• 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
<b>Interference immunity against high-frequency electromagnetic fields</b>	
• 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
<b>Interference immunity to cable-borne interference</b>	
• 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
<b>Interference immunity against voltage surge</b>	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
<b>Interference immunity to magnetic fields</b>	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
<b>Emission of conducted and non-conducted interference</b>	
• Interference emission via line/AC current cables	IEC 61000-6-3, IEC 61000-6-4, CAN/CSA CISPR 32 Class B, FCC Class A
<b>Degree and class of protection</b>	
IP degree of protection	IP20
<b>Standards, approvals, certificates</b>	
Siemens Eco Profile (SEP)	Siemens EcoTech
CE mark	Yes
UKCA mark	Yes
CSA approval	Yes
UL approval	Yes; UL 61010-2-201 Second Edition, File E85972
• UL 508	No
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
BSMI	No; in preparation
BIS	Yes
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
<b>Ecological footprint</b>	
• environmental product declaration	Yes
<b>Global warming potential</b>	
— global warming potential, (total) [CO2 eq]	619 kg
— global warming potential, (during production) [CO2 eq]	68.8 kg
— global warming potential, (during operation) [CO2 eq]	566 kg
— global warming potential, (after end of life cycle) [CO2 eq]	-15.8 kg
<b>Marine approval</b>	
• Germanischer Lloyd (GL)	Yes
• American Bureau of Shipping (ABS)	Yes
• Bureau Veritas (BV)	Yes
• Det Norske Veritas (DNV)	Yes

- Korean Register of Shipping (KRS) Yes
- Lloyds Register of Shipping (LRS) Yes
- Nippon Kaiji Kyokai (Class NK) Yes

### Ambient conditions

Ambient temperature during operation	
• min.	0 °C
• max.	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: temperature 30 °C, relative humidity 85%; permissible range: 0 to 31 °C: 5 - 80%; decreasing linearly to 5 - 25% at 55 °C; storage: temperature 25 °C - 55 °C, relative humidity 95%
• 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/s <sup>2</sup>
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27: 150 m/s <sup>2</sup> , 11 ms

### Operating systems

pre-installed operating system	Windows 10 IoT Enterprise 2021 LTSC, Windows 11 IoT Enterprise 2024 LTSC, Industrial OS
without operating system	Yes; Optional
pre-installed operating system	
• Windows 10 Enterprise	Yes; Windows 10 IoT Enterprise 2021 LTSC

### Software

SIMATIC Software	Optional package with SIMATIC WinCC
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### Mechanics/material

Enclosure material (front)	Continuous-cast aluminum
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### Dimensions

Width	262 mm
Height	139.7 mm
Depth	62.6 mm

### Approvals / Certificates

#### General Product Approval



[Miscellaneous](#)



#### General Product Approval

#### For use in hazardous locations

[BIS CRS](#)



[Miscellaneous](#)

#### Maritime application



[NK / Nippon Kaiji Kyokai](#)

[CCS \(China Classification Society\)](#)

#### Maritime application

#### Dangerous goods

#### Environment

[KR \(Korean Register of Shipping\)](#)

[Dangerous goods information](#)



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