



SIMATIC IPC BX-39A; Intel(R) UHD graphic onboard; 4x USB 3.2; Ethernet (10/100/1000); PCIe (optional) Intel Celeron 6600HLE (2.1 GHz, 2C/2T); DIN-rail mounting; 8 GB; M.2 SSD 256 GB Eco; without 2nd mass storage: without operating system; additionally 1 x com (RS232/485/422); (2 in total) 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);

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	
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® UHD Graphics 16 EUs (for Intel® Celeron® 6600HLE and Intel® Xeon® W-11155MLE) / Intel® UHD Graphics 32 EUs (for Intel® Xeon® W-11555MLE and Intel® Xeon® W-11865MLE)	
Drives		
Hard disk	M.2 SSD ≥ 240 GB	
SSD	Yes; ≥ 240 GB optional, RAID1 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	<ul style="list-style-type: none"> <li>free slots</li> <li>Number of PCI slots</li> <li>Number of compact flash slots</li> </ul>	2x PCIe; optional: 1x PCIe (x4); 2x PCIe (x1, x4), with card retainer 2; Optional 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</li> <li>— 100 Mbps</li> <li>— 1000 Mbps</li> </ul>	4x Ethernet (RJ45) Yes Yes	
Interrupts/diagnostics/status information		
LED status display	1x power, 3x user	
Bus diagnostics	Yes	

Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	No
• Monitoring function via network	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	
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
Ecological footprint	
• environmental product declaration	Yes
Global warming potential	
— 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
Marine approval	
• 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
<b>Ambient conditions</b>	
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
<b>Operating systems</b>	
pre-installed operating system	Windows 10 IoT Enterprise 2021 LTSC, Industrial OS
without operating system	Yes; Optional
pre-installed operating system	
• Windows 7	No
• Windows 10 Enterprise	Yes; Windows 10 IoT Enterprise 2021 LTSC
• Windows 11	No; in preparation
<b>Software</b>	
SIMATIC Software	Optional package with SIMATIC WinCC
<b>Mechanics/material</b>	
Enclosure material (front)	Continuous-cast aluminum
<b>Dimensions</b>	
Width	262 mm
Height	139.7 mm
Depth	62.6 mm
<b>Approvals / Certificates</b>	

**General Product Approval**



Miscellaneous



**General Product Approval**

**For use in hazardous locations**

[BIS CRS](#)



**For use in hazardous locations**

**Maritime application**



[Miscellaneous](#)



**Maritime application**

**Dangerous goods**

**Environment**



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