

SIMATIC IPC BX-39A; Intel(R) UHD graphics onboard; 4x USB 3.2; Ethernet (10/100/1000); PCIe (optional) Industrial Edge Intel Xeon W-11555MLE (1.9/4.4 GHz, 6C/12T); DIN-rail mounting; 16 GB; 1st mass storage: M.2 SSD 256 GB Eco; without 2nd mass storage: without operating system; without option 1; 24 V DC industrial power supply (NAU, isolated, bridging time);

General information	
Product type designation	SIMATIC IPC 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
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	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	8 / 16 / 32 GB
Capacity of main memory, max.	32 Gbyte
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
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
• 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	
CE mark	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
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	
• 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: 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/s ²
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27: 150 m/s ² , 11 ms
Operating systems	
pre-installed operating system	SIMATIC Industrial OS

Software	
SIMATIC Software	Industrial Edge - SIMATIC
Mechanics/material	
Enclosure material (front)	Continuous-cast aluminum
Dimensions	
Width	262 mm
Height	139.7 mm
Depth	62.6 mm
Approvals / Certificates	
General Product Approval	
EMV	
 CCC  VDE Miscellaneous  EEQCO Scheme-X  RCM	
Test Certificates	
Maritime application	
Miscellaneous Special Test Certificate Type Test Certificates/Test Report  ABS  BUREAU VERITAS  DNV	
Maritime application	
other	
Dangerous goods	
 LRS  RMRS CCS (China Classification Society) Confirmation Miscellaneous Transport Information	
Environment	
  Environmental Confirmations  Environmental Confirmations	

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