

Siemens
EcoTech



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; 16 GB; M.2 SSD 256 GB Eco; without 2nd mass storage: Windows 10 IoT Enterprise 2021 LTSC for Celeron Xeon W-11155MLE, Xeon W-11555MLE; without option 1; 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 | 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 |
| Rated value (DC) | 24 V |
| Mains buffering | |
| <ul style="list-style-type: none"> 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® 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"> free slots Number of PCI slots Number of compact flash slots | 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 |
| Video interfaces | |
| <ul style="list-style-type: none"> Graphics interface | 2x DisplayPort (DP1.4-capable): maximum 4096 × 2304 / 60 Hz / 36 bit |
| Industrial Ethernet | |
| <ul style="list-style-type: none"> Industrial Ethernet interface <ul style="list-style-type: none"> — 100 Mbps — 1000 Mbps | 4x Ethernet (RJ45) Yes 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 |
| 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 |
| 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 |
| 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 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 | 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 |
| 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 |
| Classifications | |

| | Version | Classification |
|--------|---------|----------------|
| eClass | 14 | 19-20-01-02 |
| eClass | 12 | 19-20-01-02 |
| eClass | 9.1 | 19-20-01-02 |
| eClass | 9 | 19-20-01-02 |
| eClass | 8 | 19-20-01-02 |
| eClass | 7.1 | 19-20-01-02 |
| eClass | 6 | 19-20-01-02 |
| ETIM | 10 | EC001413 |
| ETIM | 9 | EC001413 |
| ETIM | 8 | EC001413 |
| ETIM | 7 | EC001413 |

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| Approvals / Certificates | |
| General Product Approval | For use in hazardous locations |



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| For use in hazardous locations | Maritime application |
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|----------------------|-------|-------------|
| Maritime application | other | Environment |
|----------------------|-------|-------------|



[Confirmation](#)



[Miscellaneous](#)

[Environmental Con-
firmations](#)



Environment



last modified:

11/24/2025