

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; 8 GB; 1st mass storage: M.2 SSD 256 GB Eco; without 2nd mass storage: without operating system; 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   |   |
| <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 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   |   |
| <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<br>2; Optional<br>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  |
| 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)<br>Yes<br>Yes  |
| Interrupts/diagnostics/status information   |   |
| Bus diagnostics   | Yes   |
| Integrated Functions  |   |
| Monitoring functions  |   |
| <ul style="list-style-type: none"> <li>Temperature monitoring</li> <li>Watchdog</li> <li>Status LEDs</li> <li>Fan</li> <li>Monitoring function via network</li> </ul> | Yes<br>Yes<br>1x power, 3x user<br>No<br>Optional   |

| EMC   |   |
|---|---|
| Interference immunity against discharge of static electricity   |   |
| <ul style="list-style-type: none"> <li>Interference immunity against discharge of static electricity</li> </ul>   | ±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   |   |
| <ul style="list-style-type: none"> <li>Interference immunity against high frequency radiation</li> </ul>  | 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   |   |
| <ul style="list-style-type: none"> <li>Interference immunity on supply cables</li> <li>Interference immunity on signal cables &gt;30m</li> <li>Interference immunity on signal cables &lt; 30m</li> </ul>   | ±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<br>±2 kV acc. to IEC 61000-4-4, burst; ±2 kV acc. to IEC 61000-4-5, surge<br>±1 kV acc. to IEC 61000-4-4, Burst |
| Interference immunity against voltage surge   |   |
| <ul style="list-style-type: none"> <li>asymmetric interference</li> <li>symmetric interference</li> </ul>   | ±2 kV acc. to IEC 61000-4-5, surge asymmetric<br>±1 kV acc. to IEC 61000-4-5, surge symmetric   |
| Interference immunity to magnetic fields  |   |
| <ul style="list-style-type: none"> <li>Interference immunity to magnetic fields at 50 Hz</li> </ul>   | 100 A/m; to IEC 61000-4-8   |
| Emission of conducted and non-conducted interference  |   |
| <ul style="list-style-type: none"> <li>Interference emission via line/AC current cables</li> </ul>  | 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 style="list-style-type: none"> <li>UL 508</li> </ul>  | 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  |   |
| <ul style="list-style-type: none"> <li>ATEX Zone 2</li> <li>IECEx Zone 2</li> <li>cULus Class I Zone 2, Division 2</li> </ul>   | No; in preparation<br>No; in preparation<br>No; in preparation  |
| Marine approval   |   |
| <ul style="list-style-type: none"> <li>Germanischer Lloyd (GL)</li> <li>American Bureau of Shipping (ABS)</li> <li>Bureau Veritas (BV)</li> <li>Det Norske Veritas (DNV)</li> <li>Korean Register of Shipping (KRS)</li> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (Class NK)</li> </ul> | No; in preparation<br>No; in preparation<br>No; in preparation<br>No; in preparation<br>No; in preparation<br>No; in preparation<br>No; in preparation  |
| Ambient conditions  |   |
| Ambient temperature during operation  |   |
| <ul style="list-style-type: none"> <li>min.</li> <li>max.</li> </ul>  | 0 °C<br>55 °C   |
| Ambient temperature during storage/transportation   |   |
| <ul style="list-style-type: none"> <li>min.</li> <li>max.</li> </ul>  | -40 °C<br>70 °C   |
| Altitude during operation relating to sea level   |   |
| <ul style="list-style-type: none"> <li>Installation altitude above sea level, max.</li> </ul>   | 3 000 m   |
| Relative humidity   |   |
| <ul style="list-style-type: none"> <li>Relative humidity</li> <li>Operation, max.</li> </ul>  | 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)<br>85 %  |
| Vibrations  |   |
| <ul style="list-style-type: none"> <li>Vibration resistance during operation acc. to IEC 60068-2-6</li> </ul>   | 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, Industrial OS |
| without operating system  | Yes; Optional                                      |
| pre-installed operating system  |  |
| <ul style="list-style-type: none"> <li>• Windows 7</li> </ul>             | No   |
| <ul style="list-style-type: none"> <li>• Windows 10 Enterprise</li> </ul> | Yes; Windows 10 IoT 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  |

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