

KBox C-102-x



High-End Industrial Computer Platform for Control Cabinet Applications

- ▶ Based on 6th Gen Intel® Core™ or Xeon® E3-1500 for demanding control applications
- ▶ Modular approach - forever young
- ▶ Wartungsfrei (maintenance-free)

POSSIBILITIES START HERE



KBox C-102-x

Developed specifically for industrial applications and tasks such as control, visualization, and inspection in the production process in particular, the new KBox C-102 series features a maintenance-free design without any fans or batteries. This ensures a significantly prolonged lifespan and high system availability. The KBox C-102 series' modular structure based on the standardized COM Express® technology results in highly scaleable systems and ensures simple upgrades whenever needed.

The availability of different housing options guarantees mounting even when space is limited.

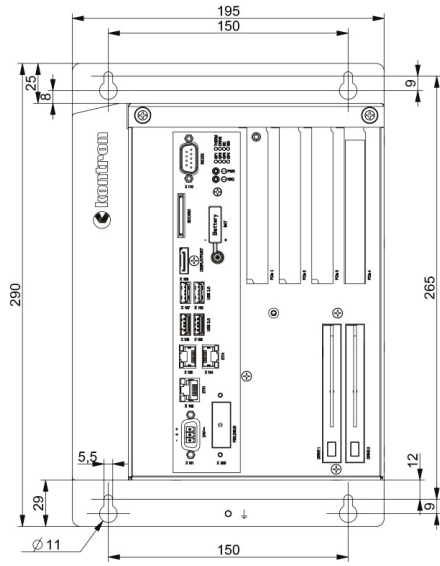
The KBox C-102 series is based on the high-performance Intel® 6th Gen Core™ or Intel® XEON® E3 processors. With its broad range of interfaces, various storage capabilities and expansion slots, the KBox C-102 series maximizes flexibility and eases adaptation to the specific application needs.

▶ TECHNICAL INFORMATION

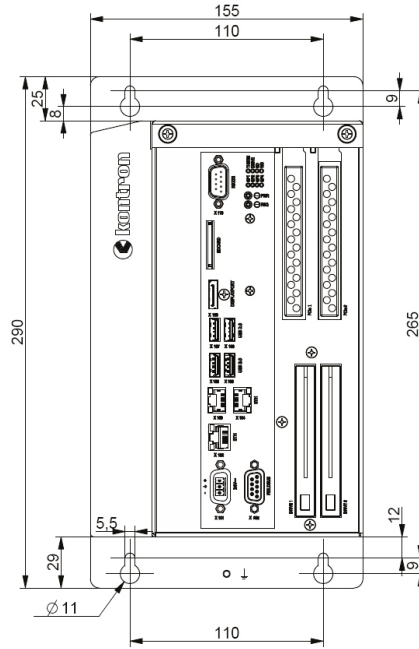
| | KBox C-102-4 | KBox C-102-2 | KBox C-102-1 | KBox C-102-0 |
|--|---|--|--|--|
| PROCESSORS | 6th Generation Intel® processor via COM Express® type 6: - Xeon® E3-1515M: Quad-Core 2.8 GHz, 8 MByte cache - Core™ i7-6820EQ: Quad-Core 2.8 GHz, 8 MByte cache - Core™ i5-6442EQ: Quad-Core 1.9 GHz, 6 MByte cache - Core™ i3-6102E: Dual-Core 1.9 GHz, 3 MByte cache - Celeron® G3902E: Dual-Core 1.6 GHz, 2 MByte cache | | | |
| PLATFORM CONTROLLER HUB | Intel® CM236 or QM170 (Core™ i5 & Core™ i7) | | | |
| MEMORY | Up to 32 GByte DDR4 RAM, non-ECC/ECC | | | |
| RTC | High-precision RTC with gold-cap backup | | | |
| SECURITY FEATURES | TPM 2.0 controller and Kontron APPROTECT | | | |
| INTERFACES | 3x 10/100/1000 MBit/s Ethernet with IEEE1588 support 2x USB 3.0, 2x USB 2.0 1x DisplayPort 1x RS232 8x LEDs (Thermal, Drive, SD, Watchdog, 4x General Purpose) 2x Buttons Power/Reset & Rescue | | | |
| STORAGE DRIVES | 2x mSATA (internal), 1x SDCard (removable), 2x 2.5" SATA SSD/HDD internal, optional accessible via removable drive assemblies | 2x mSATA (internal), 1x SDCard (removable), 2x 2.5" SATA SSD/HDD internal, optional accessible via removable drive assemblies | 2x mSATA (internal), 1x SDCard (removable), 1x 2.5" SATA SSD/HDD internal, optional accessible via removable drive assembly | 2x mSATA (internal), 1x SDCard (removable), 1x 2.5" SATA SSD/HDD internal |
| EXPANSIONS | 2x PCIe x4 + 2x PCIe x1, 2x mPCIe (1x for Fieldbus expansion) | 2x PCIe x4, 2x mPCIe (1x for Fieldbus expansion) | 1x PCIe x4, 2x mPCIe (1x for Fieldbus expansion) | 2x mPCIe (1x for Fieldbus expansion) |
| POWER SUPPLY | 24 VDC (+20 %/-15 %), 10ms hold-up | | | |
| DIMENSION (H X W X D) | 290 x 195 x 210 mm (11.42" x 7.68" x 8.27") | 290 x 155 x 210 mm (11.42" x 6.1" x 8.27") | 290 x 130 x 210 mm (11.42" x 5.12" x 8.27") | 290 x 117 x 210 mm (11.42" x 4.61" x 8.27") |
| MOUNTING | Control cabinet key holes, book size format | | | |
| COOLING | Fanless | | | |
| ENVIRONMENTAL OPERATING TEMPERATURE | with Intel® Core™ i3/i5: 0 °C to + 65 °C (32 °F to 149 °F) with Intel® Core™ i7/XEON®: 0 °C to + 50 °C (32 °F to 122 °F) -40 °C to +85 °C (-40 °F to 185 °F) | | | |
| STORAGE TEMPERATURE CLIMATIC HUMIDITY | 93 % RH at 40 °C, non-condensing (acc. to IEC 60068-2-78) | | | |
| APPROVALS | CE, CB, UL, FCC | | | |
| SOFTWARE SUPPORT | Windows® 7, Windows® Embedded Standard 7, Windows® 10, Linux® | | | |
| WEIGHT | 6 kg (13.22 lbs.) | 4.75 kg (10.47 lbs.) | 4.6 kg (10.14 lbs.) | 3.8 kg (8.37 lbs.) |

► DIMENSIONS - FRONT SIDE

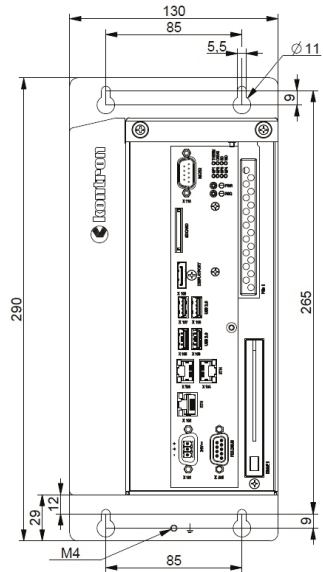
KBox C102-4



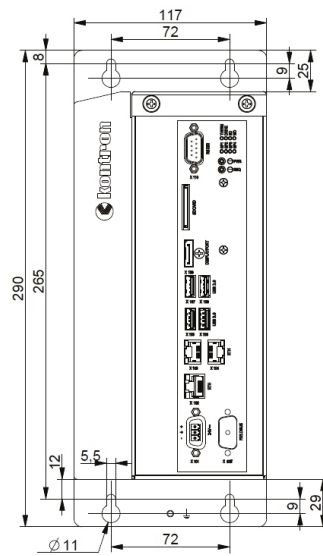
KBox C102-2



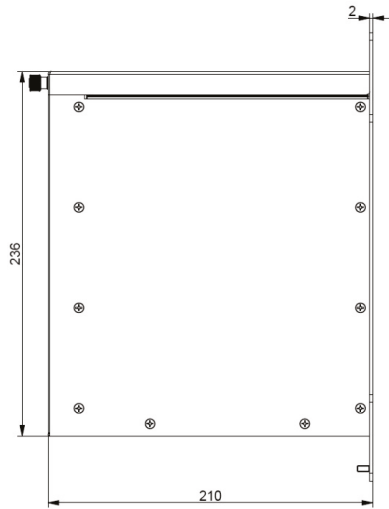
KBox C102-1



KBox C102-0



► DIMENSIONS - RIGHT SIDE



► GLOBAL HEADQUARTERS

Kontron Europe GmbH

Gutenbergstraße 2
85737 Ismaning, Germany
Tel.: +49 821 4086-0
Fax: +49 821 4086-111
info@kontron.com

www.kontron.com