

# KBox C-102-x

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## 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)
- ▶ Security Solution Kontron APPROTECT based on WIBU Systems Technology



AN S&T COMPANY

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
<b>PROCESSORS</b>	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			
<b>PLATFORM CONTROLLER HUB</b>	Intel® CM236 or QM170 (Core™ i5 & Core™ i7)			
<b>MEMORY</b>	Up to 32 GByte DDR4 RAM, non-ECC/ECC			
<b>RTC</b>	High-precision RTC with gold-cap backup			
<b>SECURITY FEATURES</b>	TPM 2.0 controller and Kontron APPROTECT			
<b>INTERFACES</b>	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			
<b>STORAGE DRIVES</b>	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
<b>EXPANSIONS</b>	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)
<b>POWER SUPPLY</b>	24 VDC (+20 %/-15 %), 10ms hold-up			
<b>DIMENSION (H X W X D)</b>	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")
<b>MOUNTING</b>	Control cabinet key holes, book size format			
<b>COOLING</b>	Fan less			
<b>ENVIRONMENTAL</b>				
<b>OPERATING TEMPERATURE</b>	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)			
<b>STORAGE TEMPERATURE</b>	-40 °C to +85 °C (-40 °F to 185 °F)			
<b>CLIMATIC HUMIDITY</b>	93 % RH at 40 °C, non-condensing (acc. to IEC 60068-2-78)			
<b>APPROVALS</b>	CE, CB, UL, FCC			
<b>SOFTWARE SUPPORT</b>	Windows® 7, Windows® Embedded Standard 7, Windows® 10, Linux®			
<b>WEIGHT</b>	6 kg (13.22 lbs.)	4.75 kg (10.47 lbs.)	4.6 kg (10.14 lbs.)	3.8 kg (8.37 lbs.)

## ▶ GLOBAL HEADQUARTERS

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