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

POSSIBILITIES START HERE ◆ kontron

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)	tbd	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 (4.61" x 11.42" x 8.27")
MOUNTING	Control cabinet key holes, book size format			
COOLING	Fan less			

ENVIRONMENTAL
  OPERATING TEMPERATURE
  STORAGE TEMPERATURE
  CLIMATIC HUMIDITY
	with Core™ i5-6442EQ 0 °C to +65 °C planned
	-40 °C to +85 °C (-40 °F to 185 °F)
	93 % RH at 40 °C, non-condensing (acc. to IEC 60068-2-78)			

APPROVALS	CE, CB, UL, FCC planned			
SOFTWARE SUPPORT	Windows® 7, Windows® Embedded Standard 7, Windows® 8.1 Industry, Windows® 10, Linux®			
WEIGHT	tbd	ca. 4.75 kg (10.47 lbs.)	ca. 4.6 kg (10.14 lbs.)	3.8 kg (8.37 lbs.)

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