

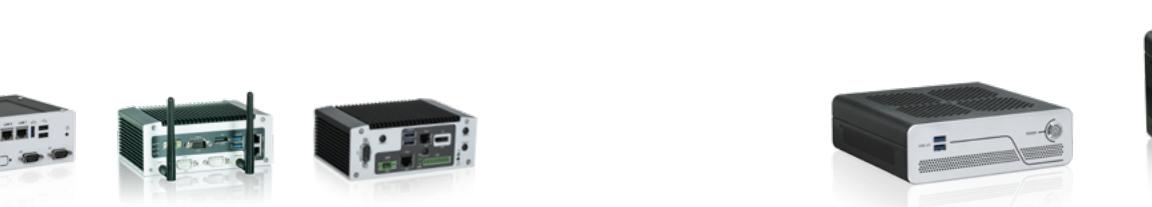
KBox Family IOT GATEWAYS/ EMBEDDED BOX PC



- ▶ **SMART AUTOMATION**
Industrial IoT applications, edge & fog computing
- ▶ **MAINTENANCE FREE**
Reducing TCO – driving system availability
- ▶ **FOREVER YOUNG**
Maximum innovation – minimum investment

Kontron's KBox family offers intelligent gateways for IoT edge applications including fieldbus connectivity. For control, inspection and data collection tasks on the factory floor powerful and maintenance-free Box PCs with a maximum of flexibility and expansion capabilities are provided.

The KBox A-series is designed for a variety of applications in the industrial environment. It comprises intelligent IoT gateways for edge analytics or remote monitoring as well as systems for control and process optimization. All systems feature a fanless design which ensures a significantly prolonged lifespan and high system availability.



▶ **KBox A-SERIES**
Compact and flexible Embedded Box PC with gateway functions which handle control & process optimization on-site

- ▶ Scalable processor performance
- ▶ Intelligent IoT gateway for edge analytics, data collection, remote monitoring
- ▶ Fieldbus options
- ▶ Fanless design
- ▶ Broad range of interfaces and expansion capabilities
- ▶ Various mounting options (DIN RAIL, wall, desktop, cabinet)
- ▶ Easy customization with proven building blocks

The KBox B-Series is based on Kontron's mini-ITX motherboard family offering highest performance with desktop CPUs. Kontron's KBox B-Series can be used for various applications such as medical, gaming, process control, wherever high performance is needed.



▶ **KBox B-SERIES**
High Performance Desktop PC with Wide Extension Capabilities

- ▶ High processing capability: 8th/9th Gen Intel® Core™ i3/i5/i7
- ▶ Low noise design with internal silent fan
- ▶ Small form factor with mITX motherboard
- ▶ Removable 2.5" SSD
- ▶ Various mounting options
- ▶ PCIe expansion slots



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KBox C-SERIES

Powerful Industrial Box PC for Control, Inspection & Data Collection

- ▶ Processor performance up to 8th/9th Gen Intel® Core™ or Xeon® E
- ▶ for demanding applications
- ▶ Highest system availability: Fanless up to 65 °C, redundant PSU option, recovery button, goldcap backup
- ▶ Optimized for control applications: Fieldbus integration & NVRAM option
- ▶ High flexibility and expandability: Up to 4x PCIe Slots, mPCIe & M.2, 4x GbE, 6x USB, up to 3x DP, ...

About Kontron – Member of the S&T Group

Kontron is a global leader in IoT/Embedded Computing Technology (ECT). As a part of technology group S&T, Kontron offers a combined portfolio of secure hardware, middleware and services for Internet of Things (IoT) and Industry 4.0 applications. With its standard products and tailor-made solutions based on highly reliable state-of-the-art embedded technologies, Kontron provides secure and innovative applications for a variety of industries. As a result, customers benefit from accelerated time-to-market, reduced total cost of ownership, product longevity and the best fully integrated applications overall.

For more information, please visit: www.kontron.com

About the Intel® Partner Alliance

From modular components to market-ready systems, Intel and the over 1,000+ global member companies of the Intel® Partner Alliance provide scalable, interoperable solutions that accelerate deployment of intelligent devices and end-to-end analytics. Close collaboration with Intel and each other enables Alliance members to innovate with the latest IoT technologies, helping developers deliver first-in-market solutions.

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Box FAMILY

WT GATEWAYS/EMBEDDED BOX PC



No moving parts ²⁾ No battery required ³⁾ Hold up time >10 ms ⁴⁾ Remote system diagnostics

Rescue Button (RSQ) Operation b) Power On/Off options

Optional **) based on WIBU Systems



KBox C-102 SERIES			KBox C-103-CFL SERIES		
COM Express 1) 2) 3) 4) 5) 6)			COM Express 1) 2) 3) 4) 5) 6)		
Quad-Core 2.8 GHz/3.7 GHz (Burst) Intel® CM236 or QM170 (Intel® Core™ i5 & Core™ i7) AMI® Aptio V5 DDR4 non ECC/ECC 32 GByte 2x SODIMM			Six-Core 2.8 GHz/4.5 GHz (Burst) Intel® CM246 (Xeon®) or QM370 AMI® Aptio V5 DDR4 non ECC/ECC 64 GByte 2x SODIMM		
Intel® Iris™ Pro Graphics P580, Intel® Core™: Intel® HD Graphics 530, Intel® Celeron® HD Graphics 510 4096 x 2304 0/0/1 (2*)/0			Intel® Xeon®: Intel® UHD Graphics P630, Intel® Core™: Intel® UHD Graphics 630, Intel® Celeron®: Intel® UHD Graphics 610 4096 x 2304 0/0/2 (3*)/0		
3x GbE: 2x Intel® I210-IT, 1x I219-LM yes yes/yes CAN, PROFIBUS or PROFINET* 1 (2*)/1*/0 2/2 -			4x GbE: 3x Intel® I210-IT, 1x I219-LM yes yes/yes 1x CAN, 1x PROFIBUS / PROFINET / ETHERCAT* 1 (2*)/1 (2*)/1 3/3 8x Digital IOs*, 4x GPIO LEDs, 2x Buttons: Power/Reset & Recovery		
4x GPIO LEDs, 2x Buttons: Power / Reset & Rescue yes 2/2/0 - 2 2/0 1 - Win7, WES7, Win8.1 Industry, Win10 Yocto TPM 2.0, Kontron APPROTECT** on request yes 24V DC (+ 20 %/- 15 %) External AC/DC adapter optional 90 to 264 V AC, 150 W Control cabinet key holes, book size format 155 x 290 x 210 mm (6.1" x 11.42" x 8.27") 4.75 kg (10.47 lbs) Fanless 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) 93 % @ 40 °C non-condensing Vibration operational: IEC 60068-2-6 10–150 Hz, 1 G Shock operational: IEC 60068-2-27 half sine 11 ms 15 G IP 20 UL/CB/CE/FCC			yes 1/4/1 1/2/1 yes 2 2 0/2 1 1 Mbit FRAM* Win10, Windows Server 2019 Ubuntu TPM 2.0, Kontron APPROTECT** on request yes 24 V DC (17..36 V DC) External AC/DC adapter optional 90 to 264 V AC, 150 W Control cabinet key holes, book size format 195 x 290 x 210 mm (7.68" x 11.42" x 8.27") approx. 6 kg (13.22 lbs) Fanless with Intel® Core™ i3/i5: -20 °C to + 65 °C (-4 °F to 149 °F) with Intel® Core™ i7: -20 °C to + 60 °C (-4 °F to 140 °F) 93 % @ 40 °C non-condensing Vibration operational: IEC 60068-2-6 10–150 Hz, 1 G Shock operational: IEC 60068-2-27 half sine 11 ms 15 G IP 20 UL/CB/CE/FCC		

systems/embedded-box-pc

systems/embedded-box-pc