

## IoT Gateways/Embedded Box PC

KBox Family



### Smart Automation

Industrial IoT applications, edge computing

### Maintenance free

Reducing TCO – driving system availability

### Forever young

Maximum innovation – minimum investment

**kontron**  
The Power of IoT

## IoT Gateways/Embedded Box PC

Kontron's KBox family offers a comprehensive range of Box PCs starting from compact low-power platforms which are used as intelligent gateways for IoT edge applications up to high-performance systems for control, inspection and data collection tasks. All systems are long-term available, feature a robust system concept with a maximum of flexibility and expansion capabilities.

The KBox A-series describes the most compact Box PC family for a variety of applications in the industrial environment. It comprises IoT gateways for edge analytics or remote monitoring as well as systems for control and process optimization. All systems are based on Intel low-power platforms, come with a fanless system design and provide a multitude of IOs and expansion capabilities.



### KBox A-Series

Compact and flexible Box PC for IoT Gateway Applications

- Intelligent IoT gateways for edge analytics, data acquisition & remote monitoring
- Scalable processor performance from Intel Atom® to 13th Gen Intel Core i3/i5/i7
- Compact, fanless system designs
- Broad range of interfaces and expansion capabilities
- Options for Fieldbus, Wi-Fi, LTE or 5G
- Various mounting options e.g. DIN rail, desktop, wallmount, cabinet



### KBox B-Series

High Performance Embedded Box PC with Versatile Expansion Capabilities

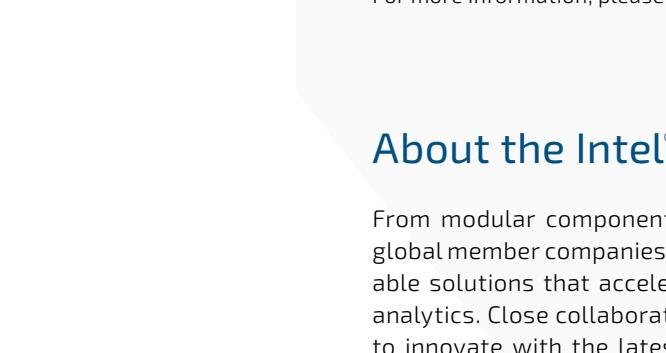
- High processing power: 14th Gen Intel® Core™ i3/i5/i7/i9
- Whisper quiet operation <34 dB (A)
- Compact form factor based on mITX motherboard
- Several storage options incl. RAID
- PCIe expansion slots for graphics or network cards
- Smart Storage version with flexible drive bays and maximum storage capacity of up to 12 TByte
- Wi-Fi option



### KBox C-Series

Powerful Industrial Box PC for Control, Inspection & Data Collection

- Processor performance up to 11th Generation Intel® Core™ or Xeon® W for demanding applications
- Highest system availability: Fanless up to 65 °C, redundant PSU option, goldcap backup
- Versatile wireless and storage options via M.2: e.g. 5G/LTE, BT, Wi-Fi, GNSS, LPWA, SSD
- Optimized for control applications: Fieldbus integration & NVRAM option
- Up to 6 antenna connectors (SMA, QMA)
- USB-C providing DisplayPort, USB and power signals
- Fanless operation at extended temperature range from -40 °C...+70°C, +85°C for 10 minutes
- Full wide range railway certified PSU (24-110V DC nominal) EN50155 Class S2



### KBox R-Series

High-End Industrial PC with EN 50155 Certification and 5G Connectivity for harsh Environments

- Powerful 11th Gen Intel® Core™ i7-1185GRE/i5-1145GRE or Intel Atom® x6425RE/x6212RE processor
- Versatile wireless and storage options via M.2: e.g. 5G/LTE, BT, Wi-Fi, GNSS, LPWA, SSD
- Up to 6 antenna connectors (SMA, QMA)
- USB-C providing DisplayPort, USB and power signals
- Fanless operation at extended temperature range from -40 °C...+70°C, +85°C for 10 minutes
- Full wide range railway certified PSU (24-110V DC nominal) EN50155 Class S2



## About Kontron

Kontron AG is a leading IoT technology company. For more than 20 years, Kontron has been supporting companies from a wide range of industries to achieve their business goals with intelligent solutions. From automated industrial operations, smarter and safer transport to advanced communications, connectivity, medical, and energy solutions, the company delivers technologies that add value for its customers. With the acquisition of KATEK SE in early 2024, Kontron significantly strengthens its portfolio with the new GreenTec division, focusing on solar energy and eMobility, and grows to around 8,000 employees in over 20 countries worldwide. Kontron is listed on the SDAX® and TecDAX® of the German Stock Exchange.

For more information, please visit: [www.kontron.com](http://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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## Global Headquarters

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# KBox Family

## IoT Gateways/Embedded Box PC

PLATFORM MAINTENANCE-FREE			
	KBox A-250 plTX 1) 4) 6)		
<b>PROCESSOR</b>	<b>CPU</b>	Intel Atom® x5-E3930 / x5-E3940 / x7-E3950	
	<b>MAX. NUMBER OF CORES</b>	Quad-Core	
	<b>MAX. SPEED</b>	1.6 GHz / 2.0 GHz (Burst)	
<b>MEMORY</b>	<b>SYSTEM CHIPSET</b>	Integrated	
	<b>BIOS</b>	AMI® Aptio V5	
	<b>MEMORY TECHNOLOGY</b>	DDR3L ECC	
	<b>MAX. CAPACITY</b>	8 Gbyte	
<b>GRAPHICS</b>	<b>SOCKET</b>	1x SODIMM	
	<b>GRAPHICS CORE</b>	Intel® HD Graphics 500	
<b>ETHERNET</b>	<b>MAX. RESOLUTION</b>	4096 x 2160	
	<b>CONTROLLER</b>	Intel® I210-IT, LAN9500AI	
	<b>TEAMING / FAILOVER</b>	yes	
	<b>2.5GbE / 1GbE / 100Mbit</b>	0 / 1 / 1	
	<b>HDMI / DVI / DP / VGA</b>	0 / 0 / 1 / 0	
	<b>RS232 / RS422 / RS485</b>	1 / 0 / 0	
	<b>USB TYPE-C</b>	-	
	<b>USB 3.2 / 3.0 / 2.0</b>	0 / 2 / 0	
	<b>AUDIO</b>	-	
	<b>MISCELLANEOUS</b>	Power Button & LEDs, 7x Digital IOs 24 V, 1x Digital Input 24 V	
<b>OPTIONAL INTERFACES</b>	<b>IO EXPANSION</b>	-	
	<b>FIELDBUS</b>	-	
	<b>WIRELESS TECHNOLOGY</b>	Wi-Fi, LTE	
	<b>MINI PCIe / PCIE / M.2</b>	2 / 0 / 0	
	<b>2.5" SSD</b>	-	
	<b>MSATA / M.2 (SATA/NVME)</b>	1 / 1	
	<b>mSD CARD / CFAST EXPRESS</b>	-	
	<b>eMMC</b>	yes	
<b>SOFTWARE</b>	<b>MICROSOFT WINDOWS</b>	Win 10 IoT LTSC 2019	
	<b>LINUX</b>	Yocto	
	<b>TOOLSET</b>	Debian 12.4 on request	
	<b>KEAPI</b>	yes	
<b>SECURITY</b>	<b>SECURITY</b>	TPM 2.0	
	<b>WATCHDOG</b>	yes	
	<b>POWER</b>	24 V DC (+/- 20 %)	
	<b>AC ADAPTER</b>	External AC/DC adapter optional, 90 to 264 V AC, 65 W	
	<b>MECHANICS</b>	<b>MOUNTING</b>	DIN RAIL, Desktop, Wallmount, Cabinet
	<b>DIMENSION (W x H x D)</b>	150 x 58 x 100 mm (5.91" x 1.97" x 3.94")	
	<b>WEIGHT</b>	1kg (2.20 lbs)	
	<b>COOLING</b>	Fanless	
	<b>OPERATING TEMPERATURE</b>	0 °C to +50 °C (32 °F to 122 °F)	
	<b>RELATIVE HUMIDITY</b>	93 % @ 40 °C non-condensing	
	<b>VIBRATION</b>	Vibration operational: IEC 60068-2-6: 10-50 Hz, 1G	
	<b>SHOCK</b>	Shock operational: IEC 60068-2-27 half sine 11 ms 15 G	
	<b>IP PROTECTION CLASS</b>	IP 20	
	<b>COMPLIANCE</b>	UL/CB/FCC/CE/UKCA planned	
<b>APPROVALS</b>			

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