

# KBox B-201

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## High-End Computing in a small footprint for noise sensitive Environments

- ▶ High processing capability: 7th Gen Intel® Core™ i3/i5/i7
- ▶ Small form factor with mITX motherboard
- ▶ Removable 2,5" SSD
- ▶ Low noise design
- ▶ Various mounting options

# KBox B-201

The Kontron KBox B-201 is part of the new Kontron Embedded Box PC family designed for high performance needs in a small form factor.

Based on 6th or 7th Gen Intel® Core™ i3/i5/i7 with a miniITX motherboard, the KBox B-201 features high processing capability according to long-term availability.

Various mounting options guarantee flexibility for multiple use cases, e.g. behind a monitor, horizontal and vertical wall mounting or as desktop version.

Typical applications are image processing, plant data collection and manufacturing execution systems.

Furthermore the front case design can easily be customized to meet individual requirements.

## ▶ TECHNICAL INFORMATION

<b>PROCESSOR</b>	<b>CPU</b>	7th Gen Intel® Core™ i3/i5/i7 Intel® i3-7101E (2x 3.9 GHz) Intel® i5-7500 (4x 3.4 GHz) Intel® i7-7700 (4x 3.6 GHz) On request 6th Gen Intel® Core™ i3/i5/i7
<b>PLATFORM CONTROLLER HUB</b>	<b>SYSTEM CHIPSET</b>	Intel® Q170 Express Chipset
<b>MISCELLANEOUS</b>	<b>SECURITY BIOS</b>	TPM V2.0, Kontron APPROTECT on request AMI® Aptio 5.x
<b>MEMORY</b>	<b>TECHNOLOGY CAPACITY</b>	DDR4-2400 UDIMM 8/16/32 GByte, non ECC SODIMM
<b>GRAPHICS</b>	<b>GRAPHICS ENGINE</b>	Internal Intel® HD Graphics, DX12
<b>FRONT I/O</b>	<b>POWER ON USB</b>	Power Button with status LED 2x USB 3.0
<b>REAR I/O</b>	<b>GRAPHICS PORTS</b>	1x DVI-D, 2x DisplayPort V1.2
	<b>AUDIO</b>	1x Line in, 1x Line out
	<b>USB</b>	4x USB 2.0, 4x USB 3.0
	<b>ETHERNET</b>	2x LAN (10/100/1000 MBit/s (WoL))
	<b>PS/2</b>	1x PS/2 Mouse, 1x PS/2 Keyboard
	<b>SERIAL PORTS</b>	1x Serial (COM1, RS232)
<b>STORAGE</b>	<b>REMOVABLE DRIVES</b>	1x 2.5" SSD SATA III / SATA-600 (accessible from the bottom)
	<b>INTERNAL DRIVES</b>	1x M.2 (2242), SATA III 1x mSATA (halfsize / fullsize, SATA III 600) (optional)
<b>EXPANSION</b>	<b>miniPCIe/PCIe</b>	1x miniPCIe
<b>SOFTWARE SUPPORT</b>	<b>MICROSOFT WINDOWS®</b>	Windows® 10 IoT Enterprise LTSB
	<b>LINUX</b>	Yocto On request: Windows®7, with 6th Gen Intel® Core™ i7/i5/i3
<b>MECHANICAL</b>	<b>CONSTRUCTION</b>	Continuously hot-dip zinc coated mild steel sheet, according EN10215
	<b>FRONT</b>	Aluminium
	<b>COOLING</b>	Internal silent fan
	<b>DIMENSIONS (W x H x D)</b>	190 x 60 x 190 mm
	<b>WEIGHT</b>	Approx. 2 kg
	<b>MOUNTING</b>	Desktop (horiz. & vertical), Wall mount (horiz. & vertical), VESA mount
<b>ENVIRONMENT</b>	<b>OPERATING TEMPERATURE</b>	0 °C - 45 °C (32 °F to 113 °F)
	<b>STORAGE TEMPERATURE</b>	-20 °C - +80 °C (-4 °F to 176 °F)
	<b>RELATIVE HUMIDITY</b>	93 % @ 40 °C, non-condensing
	<b>OPERATING VIBRATION</b>	5-500 Hz, 1G acc. IEC 60068-2-6
	<b>OPERATING SHOCK</b>	half sine, 15 g, 11 ms acc. IEC 60068-2-27
	<b>ALTITUDE</b>	5000 m (16400 ft)
	<b>NOISE LEVEL</b>	<= 34 dB(A) at 25 °C, Sea level, 1 m, Full CPU/GPU load
<b>RELIABILITY</b>	<b>MTBF</b>	62257 h at 40 °C
<b>APPROVALS</b>	<b>CE, CB, NRTL</b>	EMC: EN 55032:2012, class B, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 55024:2010 NOTE: with external power supply provided by Kontron  Savety: IEC 62368-1:2014, EN 62368-1:2014, UL 62-368-1:2014-12, CAN/CSA-C22.2 No. 62368-1:2014-12 NOTE: with external power supply provided by Kontron
<b>POWER SUPPLY (EXTERNAL)</b>	<b>INPUT VOLTAGE RANGE</b>	90 to 264 VAC (external power supply)
	<b>CERTIFICATIONS</b>	CE, UL, BIS, CCC, EAC
<b>ACCESSORIES</b>	<b>POWER SUPPLY MOUNTING</b>	1x AC power supply, 1x AC power cord (including) Desktop chassis feet (including), Desktop vertical stand, Wallmount brackets and VESA 100 mounting plate (optional)

## ▶ GLOBAL HEADQUARTERS

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