

KBox B-201



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

PROCESSOR	CPU	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
PLATFORM CONTROLLER HUB	SYSTEM CHIPSET	Intel® Q170 Express Chipset
MISCELLANEOUS	SECURITY BIOS	TPM V2.0, Kontron APPROTECT on request AMI® Aptio 5.x
MEMORY	TECHNOLOGY CAPACITY	DDR4-2400 UDIMM 8/16/32 GByte, non ECC SODIMM
GRAPHICS	GRAPHICS ENGINE	Internal Intel® HD Graphics, DX12
FRONT I/O	POWER ON USB	Power Button with status LED 2x USB 3.0
REAR I/O	GRAPHICS PORTS	1x DVI-D, 2x DisplayPort V1.2
	AUDIO	1x Line in, 1x Line out
	USB	4x USB 2.0, 4x USB 3.0
	ETHERNET	2x LAN (10/100/1000 MBit/s (WoL))
	PS/2	1x PS/2 Mouse, 1x PS/2 Keyboard
	SERIAL PORTS	1x Serial (COM1, RS232)
STORAGE	REMOVABLE DRIVES	1x 2.5" SSD SATA III / SATA-600 (accessible from the bottom)
	INTERNAL DRIVES	1x M.2 (2242), SATA III 1x mSATA (halfsize / fullsize, SATA III 600) (optional)
EXPANSION	miniPCIe/PCIe	1x miniPCIe
SOFTWARE SUPPORT	MICROSOFT WINDOWS® LINUX	Windows® 10 IoT Enterprise LTSB Yocto On request: Windows®7, with 6th Gen Intel® Core™ i7/i5/i3
MECHANICAL	CONSTRUCTION	Continuously hot-dip zinc coated mild steel sheet, according EN10215
	FRONT	Aluminium
	COOLING	Internal silent fan
	DIMENSIONS (W x H x D)	190 x 60 x 190 mm
	WEIGHT	Approx. 2 kg
	MOUNTING	Desktop (horiz. & vertical), Wall mount (horiz. & vertical), VESA mount
ENVIRONMENT	OPERATING TEMPERATURE	0 °C - 45 °C (32 °F to 113 °F)
	STORAGE TEMPERATURE	-20 °C - +80 °C (-4 °F to 176 °F)
	RELATIVE HUMIDITY	93 % @ 40 °C, non-condensing
	OPERATING VIBRATION	5-500 Hz, 1G acc. IEC 60068-2-6
	OPERATING SHOCK	half sine, 15 g, 11 ms acc. IEC 60068-2-27
	ALTITUDE	5000 m (16400 ft)
	NOISE LEVEL	<= 34 dB(A) at 25 °C, Sea level, 1 m, Full CPU/GPU load
RELIABILITY	MTBF	62257 h at 40 °C
APPROVALS	CE, CB, NRTL	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
POWER SUPPLY (EXTERNAL)	INPUT VOLTAGE RANGE	90 to 264 VAC (external power supply)
	CERTIFICATIONS	CE, UL, BIS, CCC, EAC
ACCESSORIES	POWER SUPPLY MOUNTING	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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