

KBox B-204-RPL

Embedded Box PC



High Performance Industrial Box PC with a Wide Range of Expansion Options

- High processing power: 14th Gen Intel® Core™ i9/i7/i5/i3 / Intel® Core™ 3/5/7 Series2 Hybrid and 5/7/9 Series2 P-Core Only Processor or Intel® Processor 300T
- High-speed DDR5 memory, up to 64 GB
- Flexible housing design for easy integration e.g. in control consoles, diagnostic/laboratory devices...
- Kontron cooling concept for high performance application at a very low noise level ('whisper quiet')
- Various storage options, up to 20 TB capacity

PROCESSORS	CPU MAX. NUMBER OF CORES MAX. SPEED SYSTEM CHIPSET BIOS	14th Gen Intel® Pentium/ Core™ i3-14100T/i5-14500T/i7-14700T/i9-14900T Intel® 300T and Intel® Core™ (Series 2) Hybrid: 3: 201TE/5: 221TE/7: 251TE; P-Core: 5: 223PTE/ 7: 253PTE/ 9: 273PTE Hybrid : up to 24-Core (8x P-Core+16x E-Core) Performance : up to 12 P-Core 14th Gen : P-Core: 1.1 GHz/5.5 GHz (Burst)** Series2 Hybrid: P-Core : 1.4 GHz/5.4 GHz (Burst)** Series2 Performance: P-Core : 1.4 GHz/5.5 GHz (Burst)** 14th Gen E-Core: 0.8 GHz/ 4 GHz (Burst)** Series2 Hybrid: E-Core: 1 GHz /3.9 GHz (Burst)** Intel® Q670E AMI® Aptio 5.x (UEFI) BIOS modified and adapted by Kontron
MEMORY	TECHNOLOGY MAX. CAPACITY SOCKET	DDR5-4800/5600* MHz Up to 64 GByte 2x SODIMM
GRAPHICS	GRAPHICS CORE MAX. RESOLUTION PCIE	Intel® Core™ i5/i7/i9; Intel® Core™ (Series2)5/7/9; Intel® UHD Graphics 770 Intel® Core™ i3; Intel® Core™ (Series2)3: Intel® UHD Graphics 730 Intel® 300T: Intel® UHD Graphics 710 7680 x 4320 @ 60Hz Optional: NVIDIA A400, NVIDIA A1000, RTX Pro 2000 BW, RTX Pro 4000 BW SFF
FRONT INTERFACES	USB BUTTON / LED	2x USB 3.2 Gen2 Power Button with integrated power LED
REAR INTERFACES	GRAPHICS PORTS USB ETHERNET SERIAL PORTS AUDIO	4x DisplayPort V1.4a 3x USB 3.2 Gen 2, 1x USB 3.2 Gen 2 (Type-C), 4x USB 2.0 1x 2.5GbE: Intel® i226LM (Wake-on-LAN) 1x 1GbE: Intel® i219LM (Wake-on-LAN) 1x COM port RS232/422/485 1x Line in, 1x Line out
STORAGE	M.2 PCIE/NVME STORAGE BAY(S)	1x M.2 Key-M 2242/2280 SSD socket on board 1x 2,5" SSD SATA III under drive holder (optional) 2x 2,5" SSD SATA III or 1x 3.5" HDD or 2x2,5" removable drive bays (RAID) on drive holder (optional)
EXPANSION SLOTS	M.2 WIRELESS PCIE	1x M.2 Key-E 2230 socket Riser-card options: PCIe 16x GEN4 or PCIe 2x8 GEN4 or PCIe 2x8 GEN3
SOFTWARE SUPPORT	OPERATING SYSTEM TOOLSET	Win 11 IoT Enterprise LTSC, Linux Debian KontronOS*** KontronGrid**** Kontron FabEagle®Connect*****
POWER	INPUT VOLTAGE RANGE	90 to 264 VAC 150 W external power supply or internal (optional) 90 to 264VAC 240W external power supply (optional) 24 VDC 120 W internal (optional)
MECHANICAL	CONSTRUCTION MOUNTING DIMENSIONS (W x H x D) WEIGHT	Fire zinc coated steel (Chassis and optional/removable Front Panel) Desktop, Wall mount, VESA 190 x 120 x 190 mm (7.48" x 4.72" x 7.48") approx. 3.0 kg (6.6 lbs)
ENVIRONMENT	COOLING OPERATING TEMPERATURE RELATIVE HUMIDITY	With PWM controlled CPU Fan, PWM controlled housing fan(s) (optional) 0 °C to +45 °C (32 °F to 113 °F) 93 % RH at 40 °C, non-condensing
APPROVALS	CERTIFICATIONS	UL 62368 (TÜV)/CB/CE/FCC/UKCA

P-Core: Performance-Core
E-Core: Efficient-Core

* Support for DDR5-5600 pending. Requires Intel® Core™ i7 or i9 processor

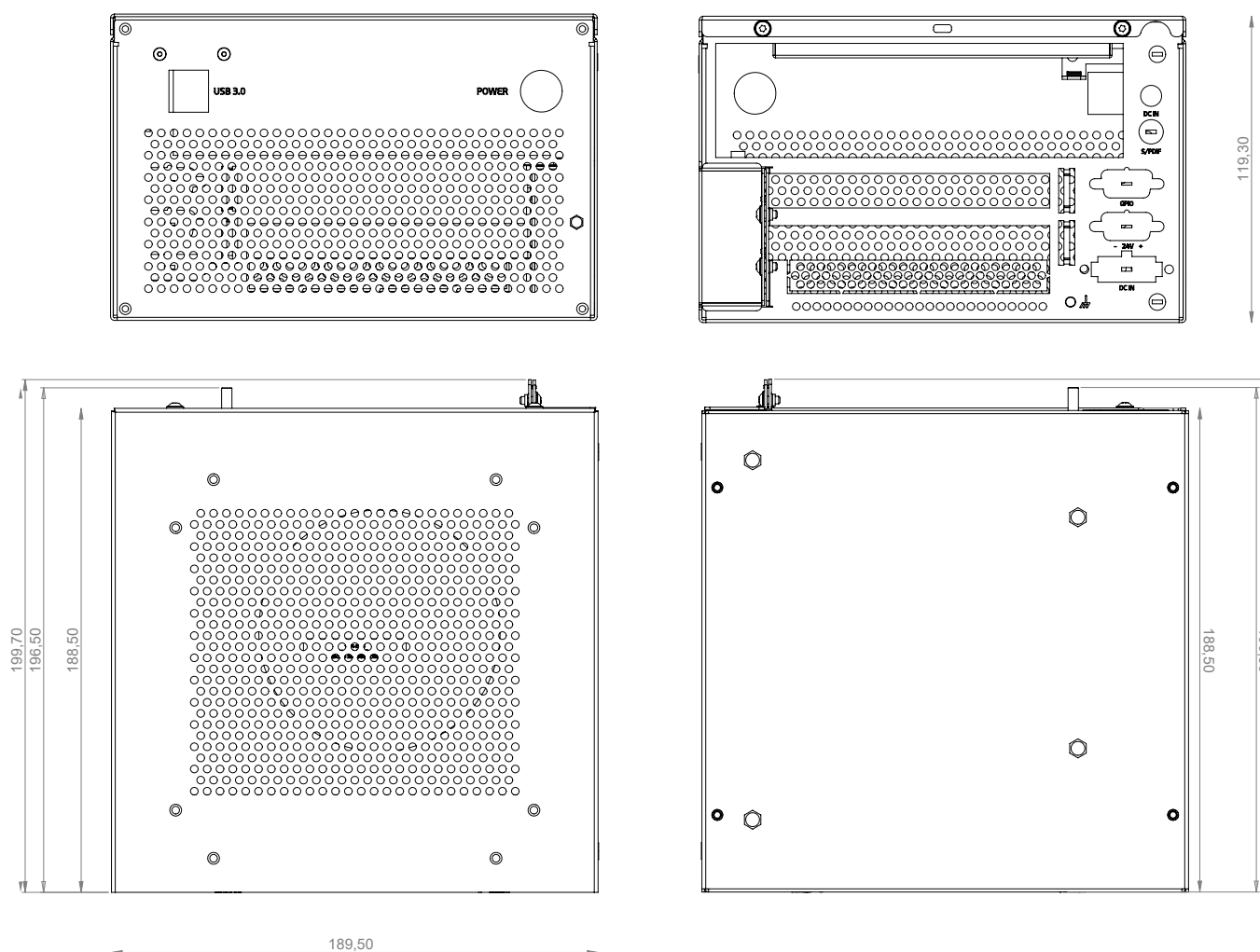
** clock will be set to embedded requirements

***KontronOS: Hardened Linux®-based operating system for the reliable operation of customer applications on edge devices

****KontronGrid: Complete fleet management solution for edge devices and container based applications

*****FabEagle®Connect: Low-code integration solution for standardized data interfaces for machines and IoT applications

More information: [Industrial Software | Kontron](#)



Accessories

ARTICLE	PART NO.	DESCRIPTION
AC POWER SUPPLY	1064-8948	90 to 264 VAC, 150 W PSU
AC POWER SUPPLY GRAPHICS	1067-3875	90 to 264 VAC, 240 W PSU
POWER CORD EU	0-0064-2173	Euro (Type A), 2.5 m
POWER CORD UK	0-0064-4173	UK (Type C), 2.5 m
POWER CORD US	0-0064-4317	US, 2m
MOUNTING BRACKET	10199-006-00	Steel plate for wall mount

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