

# KBox B-204-RPL

## Embedded Box PC



### High-Performance Industrial PC with a wide range of expansion options

- High processing power: up to 14th Gen Intel® Core™ i9/i7/i5/i3 and Intel® Processor 300
- High-speed DDR5 memory, up to 96 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

|                         |                                                                                                        |                                                                                                                                                                                                                                                               |
|-------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PROCESSORS</b>       | <b>CPU</b><br><b>MAX. NUMBER OF CORES</b><br><b>MAX. SPEED</b><br><b>SYSTEM CHIPSET</b><br><b>BIOS</b> | 14th Gen Intel® Pentium/ Core™ i3-14100T/i5-14500T/i7-14700T/i9-14900T Intel®300T<br>24-Core (8x P-Core + 16x E-Core)<br>P-Core: 1.8 GHz/5.2 GHz (Burst)**<br>E-Core: 1.3 GHz**<br>Intel® Q670E<br>AMI® Aptio 5.x (UEFI) BIOS modified and adapted by Kontron |
| <b>MEMORY</b>           | <b>TECHNOLOGY</b><br><b>MAX. CAPACITY</b><br><b>SOCKET</b>                                             | DDR5-4800/5600* MHz<br>Up to 96 GByte<br>2x SODIMM                                                                                                                                                                                                            |
| <b>GRAPHICS</b>         | <b>GRAPHICS CORE</b><br><br><b>MAX. RESOLUTION</b><br><b>PCIe</b>                                      | Intel® Core™ i5/i7/i9: Intel® UHD Graphics 770<br>Intel® Core™ i3: Intel® UHD Graphics 730,<br>Intel® 300T: Intel® UHD Graphics 710<br>7680 x 4320 @ 60Hz<br>NVIDIA A400, NVIDIA A1000, NVIDIA A4000 Ada SFF on request                                       |
| <b>FRONT INTERFACES</b> | <b>USB</b><br><b>BUTTON / LED</b>                                                                      | 2x USB 3.2 Gen2<br>Power Button with integrated power LED                                                                                                                                                                                                     |
| <b>REAR INTERFACES</b>  | <b>GRAPHICS PORTS</b><br><b>USB</b><br><b>ETHERNET</b><br><br><b>SERIAL PORTS</b><br><b>AUDIO</b>      | 4x DisplayPort V1.4a<br>3x USB 3.2 Gen 2, 1x USB 3.2 Gen 2 (Type-C), 4x USB 2.0<br>1x 2.5GbE: Intel® i226LM (Wake-on-LAN)<br>1x 1GbE: Intel® i219LM (Wake-on-LAN)<br>1x COM port RS232/422/485<br>1x Line in, 1x Line out                                     |
| <b>STORAGE</b>          | <b>M.2 PCIe/NVME</b><br><b>STORAGE BAY(S)</b>                                                          | 1x M.2 Key-M 2242/2280 SSD socket on board<br>1x 2.5" SSD SATA III under drive holder (optional)<br>2x 2.5" SSD SATA III or 1x 3.5" HDD or 2x2.5" removable drive bays (RAID) on drive holder (optional)                                                      |
| <b>EXPANSION SLOTS</b>  | <b>M.2 WIRELESS</b><br><b>PCIe</b>                                                                     | 1x M.2 Key-E 2230 socket<br>Riser-card options: PCIe 16x GEN4 or PCIe 2x8 GEN4 or PCIe 2x8 GEN3                                                                                                                                                               |
| <b>SOFTWARE SUPPORT</b> | <b>OPERATING SYSTEM</b><br><b>TOOLSET</b>                                                              | Win 11 IoT Enterprise LTSC,<br>Linux Debian<br>KontronOS***<br>KontronGrid****<br>Kontron FabEagle®Connect*****                                                                                                                                               |
| <b>POWER</b>            | <b>INPUT VOLTAGE RANGE</b>                                                                             | 90 to 264 VAC 150 W external power supply or internal (optional)<br>90 to 264VAC 240W external power supply (optional)<br>24 VDC 120 W internal (optional)                                                                                                    |
| <b>MECHANICAL</b>       | <b>CONSTRUCTION</b><br><b>MOUNTING</b><br><b>DIMENSIONS (W x H x D)</b><br><b>WEIGHT</b>               | Fire zinc coated steel (Chassis and optional/removable Front Panel)<br>Desktop, Wall mount, VESA<br>190 x 120 x 190 mm (7.48" x 4.72" x 7.48")<br>approx. 3.0 kg (6.6 lbs)                                                                                    |
| <b>ENVIRONMENT</b>      | <b>COOLING</b><br><b>OPERATING TEMPERATURE</b><br><b>RELATIVE HUMIDITY</b>                             | With PWM controlled CPU Fan, PWM controlled housing fan(s) (optional)<br>0 °C to +45 °C (32 °F to 113 °F)<br>93 % RH at 40 °C, non-condensing                                                                                                                 |
| <b>APPROVALS</b>        | <b>CERTIFICATIONS</b>                                                                                  | UL 62386 (TÜV)/CB/CE/FCC/UKCA (currently under test)                                                                                                                                                                                                          |

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

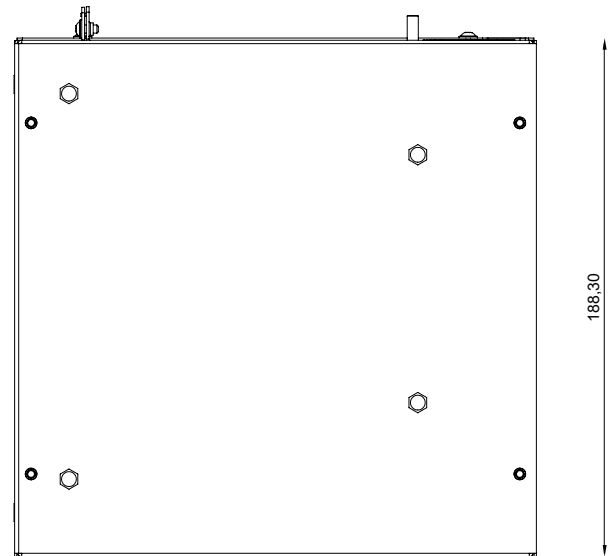
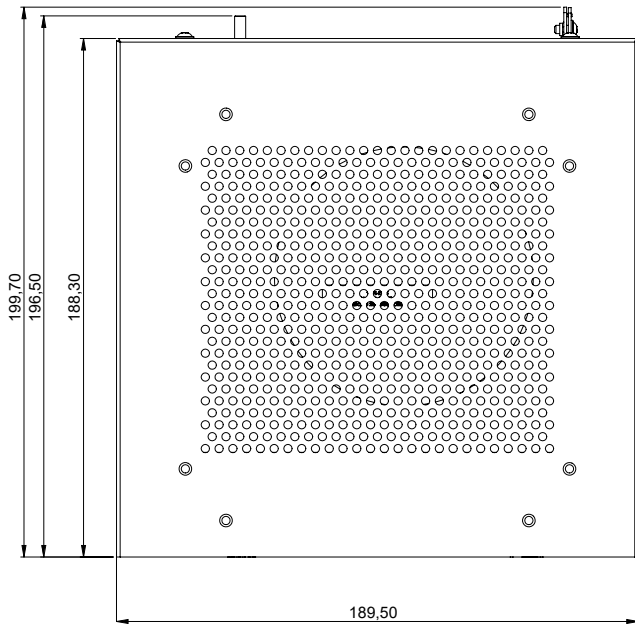
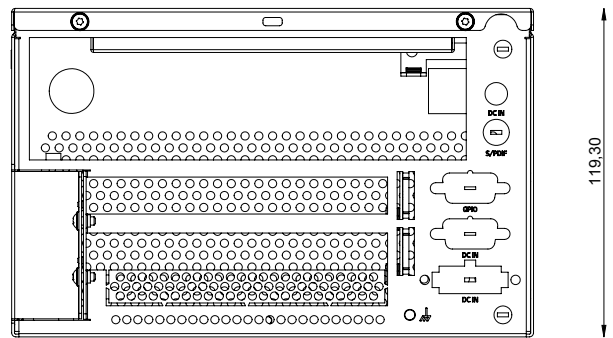
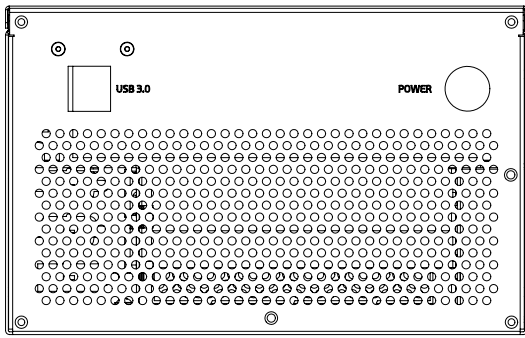
\* Support for DDR5-5600 pending. Requires Intel® Core™ i7 or i9 processor  
\*\* clock will be set to embedded requirements

\*\*\*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: [www.susietec.com/en/solutions/software](http://www.susietec.com/en/solutions/software)



## 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 |

## Global Headquarters

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