

# KBox E-210 SERIES

## FANLESS & 4K UHD SUPPORT

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### FANLESS BOX PC

### INTEL® SKYLAKE / KABY LAKE U-SERIES PROCESSORS

- ▶ 1x HDMI 2.0, 1x DP for display output
- ▶ 2x GbE LAN for Ethernet
- ▶ 4x USB 3.0, 2x RS232/422/485, 1x DIO for peripheral connection
- ▶ 1x 2.5" SATA 3.0 HDD / SSD Slot for storage
- ▶ 1x mPCIe, 1x M.2 for expansion

## KBox E-210 SERIES

### FANLESS BOX PC WITH INTEL® SKYLAKE / KABY LAKE U-SERIES PROCESSORS

Powered by 6th / 7th Generation Intel® Skylake / Kaby Lake U-Series Processors, KBox E-210 Series is a fanless box PC that can deliver excellent processing and graphical performance to respond to the requirements for the state-of-the-art applications. Equipped with one HDMI 2.0 port, it supports 4K resolution, higher data rate, wider bandwidth and ultra-wide display, making it an ideal platform for digital signage or audio / video data intensive applications.

It has one 2.5" SATA 3.0 HDD / SSD supported, allowing double read / write speed. In addition, a M.2 socket enables multi-functional integration, such as satellite navigation, WWAN and SSDs.

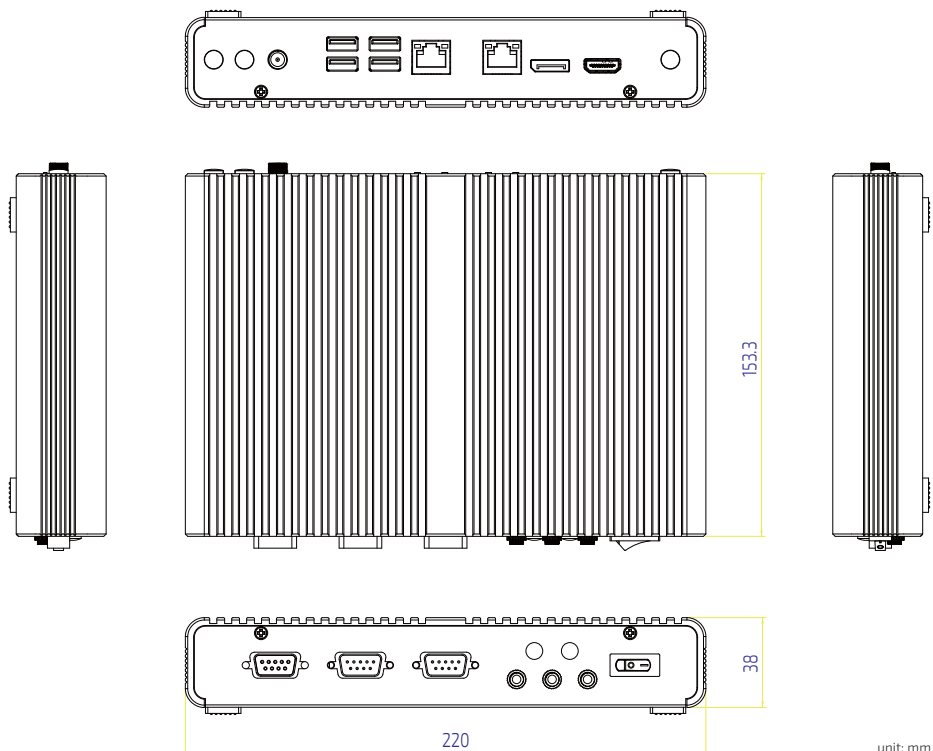
Finally, it is enclosed within a rugged aluminum chassis with ventilation slots, allowing it installed outdoors without fear of dust ingress.

#### ▶ PRODUCT HIGHLIGHTS

- ▶ Intel® Skylake / Kaby Lake U-Series Processors
- ▶ 2x DDR4 SO-DIMM memory socket
- ▶ 1x HDMI 2.0, 1x DP for video output
- ▶ 2x GbE LAN for Ethernet
- ▶ 4x USB 3.0, 2x RS232/422/485, 1x DIO for peripherals
- ▶ 1x 2.5" SATA 3.0 HDD / SSD for storage
- ▶ 1x mPCIe, 1x M.2 for expansion
- ▶ Passive cooling design without fans and vents



#### ▶ MECHANICAL DIMENSIONS



## TECHNICAL INFORMATION

<b>System</b>	<b>Processor</b>  <b>Memory</b>	Intel® Skylake Core™ i5-6300U (Dual Core, 3M Cache, up to 3.00 GHz, FCBGA1356, 15 W TDP) Intel® Skylake Core™ i7-6600U (Dual Core, 4M Cache, up to 3.40 GHz, FCBGA1356, 15 W TDP) Intel® Skylake Celeron® 3955U (Dual Core, 2M Cache, 2.00 GHz, FCBGA1356, 15 W TDP) Intel® Kaby Lake Core™ i5-7300U (Dual Core, 3M Cache, up to 3.50 GHz, FCBGA1356, 15 W TDP) Intel® Kaby Lake Core™ i7-7600U (Dual Core, 4M Cache, up to 3.90 GHz, FCBGA1356, 15 W TDP) Intel® Kaby Lake Celeron® 3965U (Dual Core, 2M Cache, 2.20 GHz, FCBGA1356, 15 W TDP) Intel® Kaby Lake Core™ i3-7100U (Dual Core, 3M Cache, 2.40 GHz, FCBGA1356, 15 W TDP) 2x DDR4 2133 1.2 V SO-DIMM up to 32 GByte
<b>Video</b>	<b>Graphics</b>  <b>Display Interface</b>  <b>Multiple Display</b>	Intel® HD Graphics 510 (Skylake Celeron® CPU) Intel® HD Graphics 520 (Skylake Core™ i CPU) Intel® HD Graphics 610 (Kaby Lake Celeron® CPU) Intel® HD Graphics 620 (Kaby Lake Core™ i CPU) 1x HDMI 2.0 (on rear, 3840 x 2160 @ 60 Hz) 1x DP (on rear, 4096 x 2304 @ 60 Hz) Dual
<b>Audio</b>	<b>Audio Codec</b> <b>Audio Interface</b>	Realtek ALC662 1x Line-in (on front) 1x Line-out (on front) 1x Mic-in (on front)
<b>Network Connection</b>	<b>Ethernet</b>	2x GbE LAN (RJ45 on rear, 1x Intel® I219-LM, 1x Intel® I210-AT)
<b>Peripheral Connection</b>	<b>USB</b> <b>Serial Port</b> <b>Other I/Os</b>	4x USB 3.0 (Type A on rear) 2x RS232/422/485 (DB9 on front) 1x DIO (DB9 Female on front)
<b>Storage &amp; Expansion</b>		1x 2.5" SATA 3.0 HDD / SSD 1x mPCIe Socket (full size) 1x M.2 Key B Socket
<b>Power</b>	<b>Connector</b> <b>Input Voltage</b>  <b>Power Adapter</b>	Lockable DC Jack (on rear) DC 12 V (default) DC 24 V or other options (by request) AC to DC, 100 V ~ 240 V
<b>Firmware</b>	<b>BIOS</b> <b>Watchdog</b> <b>H/W Monitor</b> <b>Real Time Clock</b> <b>TPM</b> <b>iAMT</b>	AMI uEFI BIOS w/ 128 Mb SPI Flash Programmable WDT to generate system reset event Voltages, Temperatures Processor integrated RTC Optional (Infineon SLB 9665 TPM 2.0) Supported for models w/ Core™ i7 / i5
<b>System Control &amp; Monitoring</b>	<b>Button, Switch &amp; Indicator</b>	1x Power Switch (on front) 1x Power LED (on front) 1x Storage LED (on front)
<b>Cooling</b>	<b>Cooling Method</b>	Passive
<b>Software</b>	<b>OS Support</b>	Windows 10, Linux
<b>Mechanical</b>	<b>Construction</b> <b>Dimensions (W x D x H)</b> <b>Weight</b> <b>Mounting</b>	Aluminum Chassis 220 mm x 153.3 mm x 38 mm / 8.66" x 6.04" x 1.50" 1600 g / 3.53 lb VESA Mount
<b>Environmental</b>	<b>Operation Temperature</b> <b>Storage Temperature</b> <b>Humidity</b>	0 °C ~ 50 °C / 32 °F ~ 122 °F -20 °C ~ 80 °C / -4 °F ~ 176 °F 0 % ~ 90 %
<b>Certification</b>	<b>EMC &amp; Safety</b>	CE, FCC Class A

## ► ORDERING INFORMATION

ARTICLE	DESCRIPTION
KBox E-210	Intel® Skylake Core™ i5-6300U, w/ iAMT
KBox E-211	Intel® Skylake Core™ i7-6600U, w/ iAMT
KBox E-212	Intel® Skylake Celeron® 3955U, w/o iAMT
KBox E-213	Intel® Kaby Lake Core™ i5-7300U, w/ iAMT
KBox E-214	Intel® Kaby Lake Core™ i7-7600U, w/ iAMT
KBox E-215	Intel® Kaby Lake Celeron® 3965U, w/o iAMT
KBox E-216	Intel® Kaby Lake Core™ i3-7100U, w/o iAMT
<b>OPTIONAL ACCESSORIES</b>	
VESA MOUNTING KIT	Hole pattern: 100 mm x 100 mm & 75 mm x 75 mm

## ► GLOBAL HEADQUARTERS

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