

KBox E-210 SERIES

FANLESS & 4K UHD SUPPORT



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.

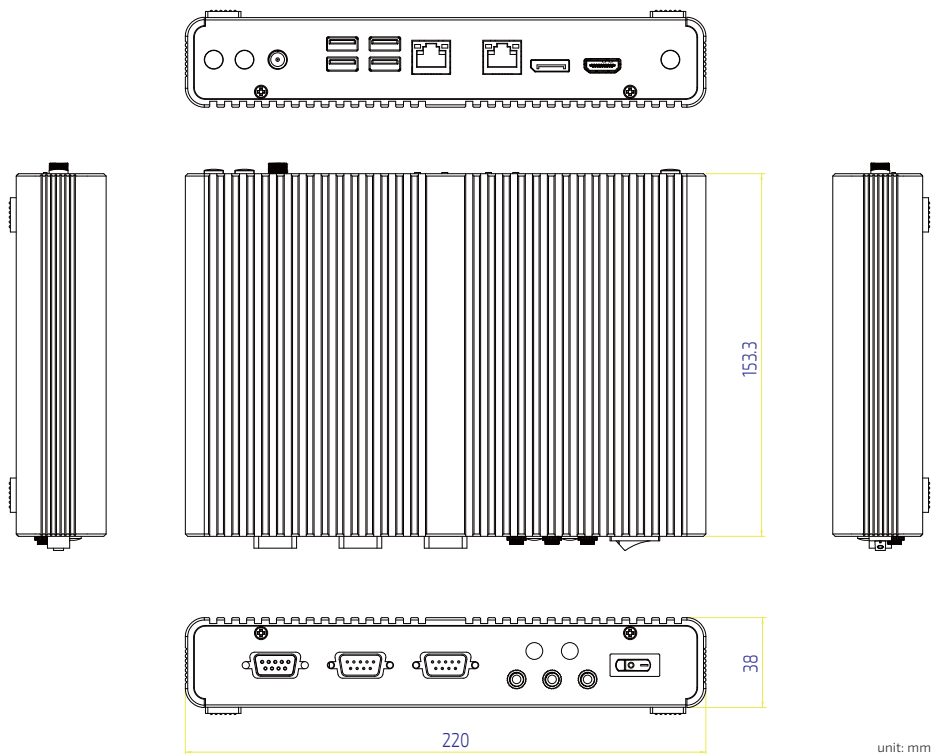
Finally, it is enclosed within a rugged aluminum chassis with ventilation slots, allowing it installed outdoors without fear of dust ingress.

▶ 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

System	Processor	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)
	Memory	2x DDR4 2133 1.2 V SO-DIMM up to 32 GByte
Video	Graphics	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)
	Display Interface	1x HDMI 2.0 (on rear, 4096 x 2160 @ 60 Hz) 1x DP (on rear, 4096 x 2304 @ 60 Hz)
	Multiple Display	Dual
Audio	Audio Codec Audio Interface	Realtek ALC662 1x Line-in (on front) 1x Line-out (on front) 1x Mic-in (on front)
Network Connection	Ethernet	2x GbE LAN (RJ45 on rear, 1x Intel® I219-LM, 1x Intel® I210-AT)
Peripheral Connection	USB Serial Port Other I/Os	4x USB 3.0 (Type A on rear) 2x RS232/422/485 (DB9 on front) 1x DIO (DB9 Female on front)
Storage & Expansion		1x 2.5" SATA 3.0 HDD / SSD 1x mPCIe Socket (full size) 1x M.2 Key B Socket
Power	Connector Input Voltage Power Adapter	Lockable DC Jack (on rear) DC 12 V (default) DC 24 V or other options (by request) AC to DC, 100 V ~ 240 V
Firmware	BIOS Watchdog H/W Monitor Real Time Clock TPM iAMT	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
System Control & Monitoring	Button, Switch & Indicator	1x Power Switch (on front) 1x Power LED (on front) 1x Storage LED (on front)
Cooling	Cooling Method	Passive
Software	OS Support	Windows 10, Linux
Mechanical	Construction Dimensions (W x D x H) Weight Mounting	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
Environmental	Operation Temperature Storage Temperature Humidity	0 °C ~ 50 °C / 32 °F ~ 122 °F -20 °C ~ 80 °C / -4 °F ~ 176 °F 0 % ~ 90 %
Certification	EMC & Safety	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

OPTIONAL ACCESSORIES	
VESA MOUNTING KIT	Hole pattern: 100 mm x 100 mm & 75 mm x 75 mm

► GLOBAL HEADQUARTERS

KONTRON S&T AG

Lise-Meitner-Str. 3-5
86156 Augsburg, Germany
Tel.: + 49 821 4086 0
Fax: + 49 821 4086 111
info@kontron.com
www.kontron.com