

# KBox F-220 SERIES

## 4K ULTRA HD SUPPORTED

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### BOX PC WITH INTEL® KABY LAKE S-SERIES PROCESSORS

- ▶ 2x HDMI 2.0, 1x DP for video output
- ▶ 2x GbE LAN for Ethernet
- ▶ 6x USB, 1x RS232/422/485 for peripheral connection
- ▶ 1x 2.5" SATA HDD / SSD, up to 2x mSATA for storage
- ▶ Up to 2x mPCIe for expansion

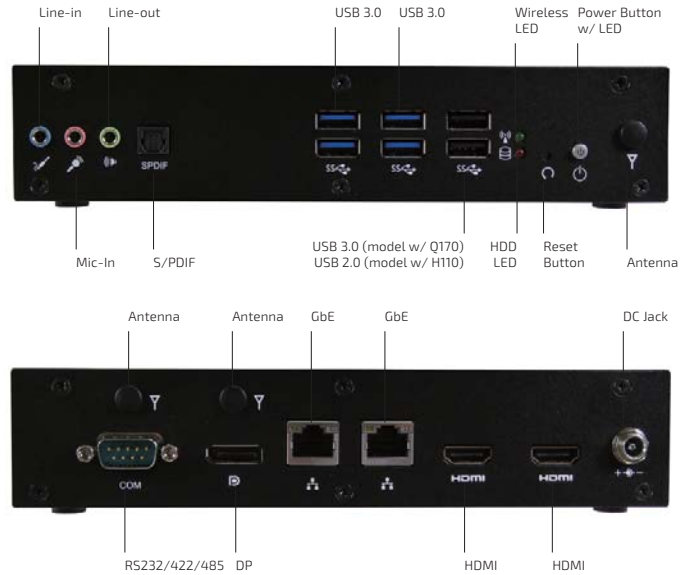
## KBox F-220 SERIES BOX PC WITH INTEL® KABY LAKE S-SERIES PROCESSORS

KBox F-220 Series is a Box PC powered by 7th Generation Intel® Kaby Lake S-Series processors with support for DDR4 memory. Combined with a variety of video / audio interfaces, including 2x HDMI 2.0, 1x DP, 1x Line-in, 1x Line-out, 1x Mic-in and 1x S/PDIF, it is an ideal platform for video and graphics intensive applications, such as digital signage, medical imaging or gaming.

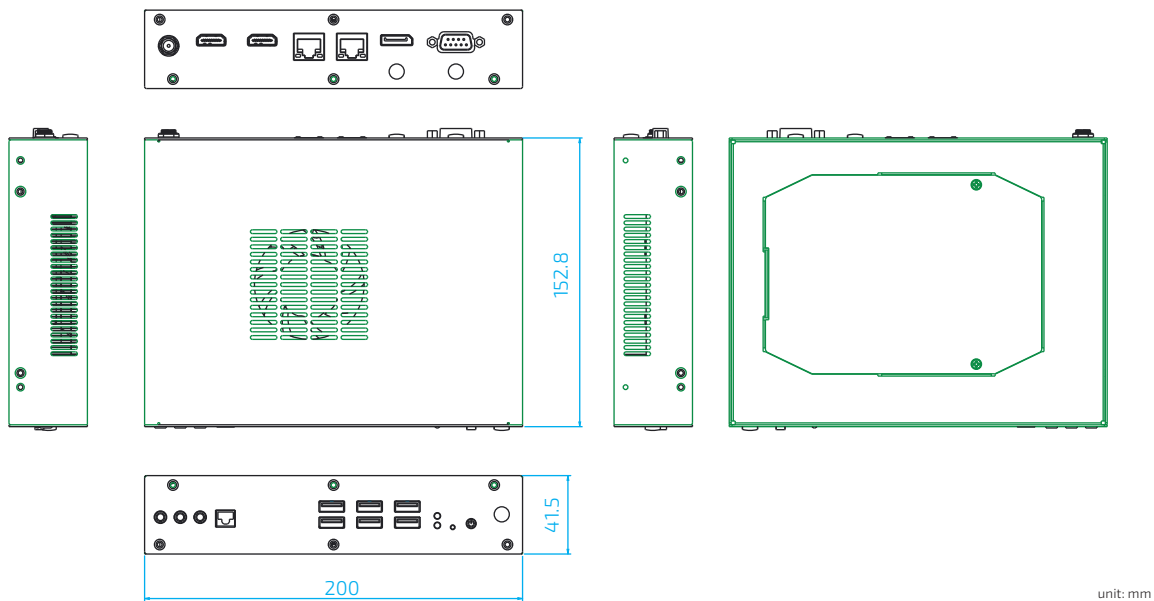
Supporting 1x 2.5" SATA HDD / SSD, 6x USB, 1x COM, 2x GbE LAN and 2x mPCIe or 2x mPCIe / mSATA, it provides multiple interface options for data storage / backup, peripheral and network connection / expansion to match the varieties of possible applications. In addition, the compact volume allows easy integration into space-constrained applications.

### ▶ PRODUCT HIGHLIGHTS

- ▶ Intel® Kaby Lake S-Series Processors (35 W TDP)
- ▶ Intel® H110 / Q170 Chipset
- ▶ 2x DDR4 SO-DIMM memory socket
- ▶ 2x HDMI 2.0, 1x DP for video output
- ▶ 2x GbE LAN for Ethernet
- ▶ 6x USB, 1x RS232/422/485 for peripheral connection
- ▶ 1x 2.5" SATA HDD / SSD, up to 2x mSATA for storage
- ▶ Up to 2x mPCIe for expansion



### ▶ MECHANICAL DIMENSIONS



## ► TECHNICAL INFORMATION

<b>SYSTEM</b>	<b>PROCESSOR CHIPSET</b>  <b>MEMORY</b>	Intel® Kaby Lake S-Series Core™ i Processors (FCLGA1151 socket, 35 W TDP) Intel® H110 Intel® Q170 2x DDR4 2133 / 2400 SO-DIMM up to 32 GByte
<b>VIDEO</b>	<b>GRAPHICS</b>  <b>DISPLAY INTERFACE</b>  <b>MULTIPLE DISPLAY</b>	Intel® HD Graphics 610 (Celeron® processors) Intel® HD Graphics 630 (Core™ i processors) 2x HDMI 2.0* (on rear, 4096 x 2160 @ 60 Hz) 1x DP (on rear, 4096 x 2304 @ 60 Hz) Dual Display (model w/ H110 chipset) Triple Display (model w/ Q170 chipset)
<b>AUDIO</b>	<b>AUDIO CODEC AUDIO INTERFACE</b>	Realtek ALC662 1x Line-in (on front) 1x Line-out (on front) 1x Mic-in (on front) 1x S/PDIF (on front)
<b>NETWORK CONNECTION</b>	<b>ETHERNET</b>	2x GbE LAN (RJ45 on rear, Intel® I219-LM, Intel® I210-AT)
<b>PERIPHERAL CONNECTION</b>	<b>USB</b>  <b>SERIAL PORT</b>	4x USB 3.0 (Type A on front, model w/ H110 chipset) 6x USB 3.0 (Type A on front, model w/ Q170 chipset) 2x USB 2.0 (Type A on front, model w/ H110 chipset) 1x RS232/422/485 (DB9 on rear)
<b>STORAGE &amp; EXPANSION</b>		1x 2.5" SATA HDD / SSD 2x mSATA / mPCIe (1x full size, 1x half size, model w/ Q170 chipset) 2x mPCIe (1x full size, 1x half size, model w/ H110 chipset) 1x SIM Card Cage
<b>POWER</b>	<b>CONNECTOR INPUT VOLTAGE POWER ADAPTER</b>	Lockable DC Jack (on rear) DC 19 V AC to DC, 100 V ~ 240 V
<b>FIRMWARE</b>	<b>BIOS WATCHDOG H/W MONITOR REAL TIME CLOCK TPM iAMT</b>	AMI uEFI BIOS w/ 128 Mb SPI Flash Programmable WDT to generate system reset event Input & Core Voltages, CPU & System Temperatures Chipset integrated RTC Supported for model w/ Q170 chipset (Infineon SLB 9665 TPM 2.0) Supported for model w/ Q170 chipset
<b>SYSTEM CONTROL &amp; MONITORING</b>	<b>BUTTON, SWITCH &amp; INDICATOR</b>	1x Power Button w/ LED (on front) 1x Reset Button (on front) 1x HDD LED (on front) 1x Wireless LED (on front)
<b>COOLING</b>	<b>FAN</b>	1x CPU Smart Fan
<b>SOFTWARE</b>	<b>OS SUPPORT</b>	Windows 10, Linux
<b>MECHANICAL</b>	<b>CONSTRUCTION DIMENSIONS (W x D x H) WEIGHT MOUNTING</b>	Metal Chassis 200 mm x 152.8 mm x 41.5 mm / 7.87" x 6.02" x 1.63" 1000 g / 2.20 lb VESA Mount, Stand Mount
<b>ENVIRONMENTAL</b>	<b>OPERATION TEMPERATURE STORAGE TEMPERATURE HUMIDITY</b>	0 °C ~ 40 °C / 32 °F ~ 104 °F -20 °C ~ 80 °C / -4 °F ~ 176 °F 0 % ~ 90 %
<b>CERTIFICATION</b>	<b>EMC &amp; SAFETY</b>	CE, FCC Class A

(\* HDMI 2.0 function is not applicable to the following monitors: LG 27MU67-B, LG 27UD68, AOC U2879VF, LG 65UF850T, QD980, Dell S2817Q & ASUS MX27UQ.)

## ▶ ORDERING INFORMATION

ARTICLE	DESCRIPTION
KBox F-220	Intel® H110 Chipset, 4x USB 3.0, 2x USB 2.0, 2x mPCIe, w/o TPM, w/o iAMT
KBox F-221	Intel® Q170 Chipset, 6x USB 3.0, 2x mPCIe / mSATA, w/ TPM, w/ iAMT

### ACCESSORIES

VESA MOUNTING KIT	Hole pattern: 100 mm x 100 mm & 75 mm x 75 mm
STAND BRACKET *	SEEC T = 1.0 black painted

The asterisk (\*) means optional item.

## ▶ GLOBAL HEADQUARTERS

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