

KBox F-220 SERIES

4K ULTRA HD SUPPORTED



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

POSSIBILITIES START HERE



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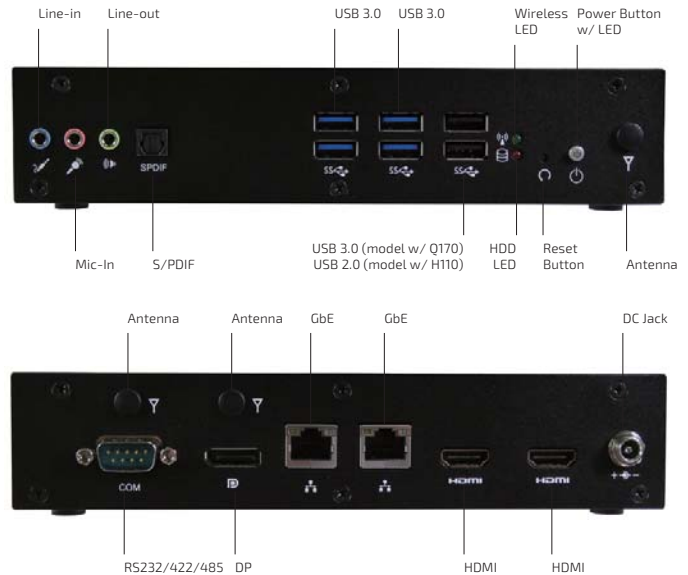
BOX PC WITH INTEL® KABY LAKE S-SERIES PROCESSORS

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.

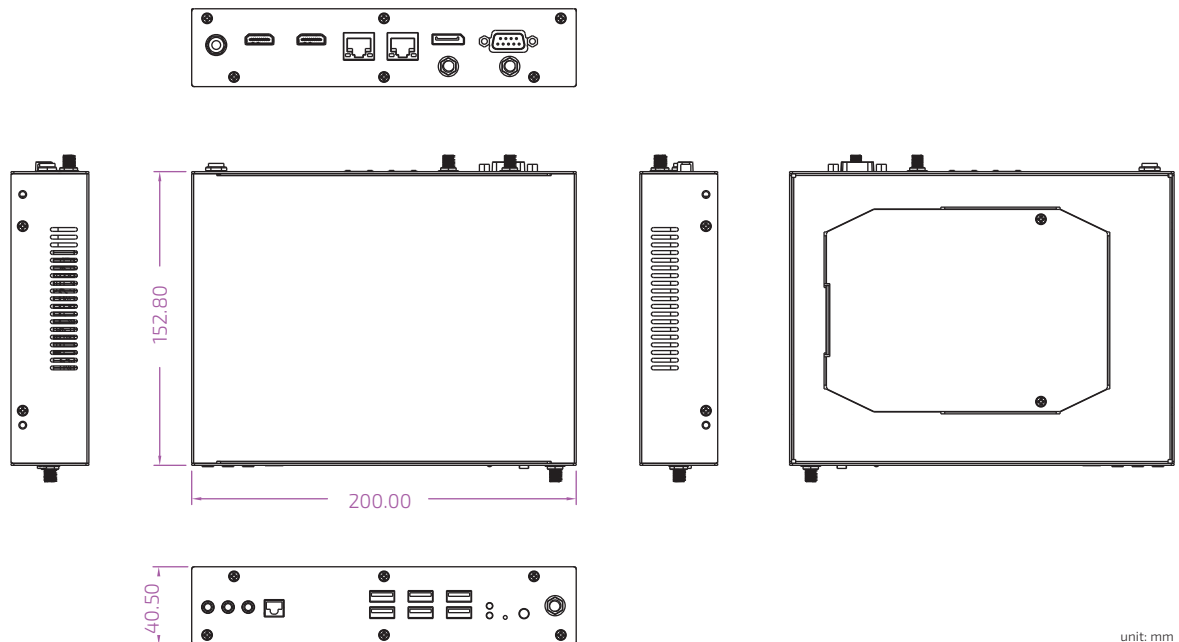
Supporting 1x 2.5" SATA HDD / SSD, 6x USB, 1x COM, 2x GbE LAN and 2x mPCIe or 2x mPCIe / mSATA, it provides multiple interface options for data storage / backup, peripheral and network connection / expansion to match the varieties of possible applications. In addition, the compact volume allows easy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

SYSTEM	PROCESSOR CHIPSET MEMORY	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
VIDEO	GRAPHICS DISPLAY INTERFACE MULTIPLE DISPLAY	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)
AUDIO	AUDIO CODEC AUDIO INTERFACE	Realtek ALC662 1x Line-in (on front) 1x Line-out (on front) 1x Mic-in (on front) 1x S/PDIF (on front)
NETWORK CONNECTION	ETHERNET	2x GbE LAN (RJ45 on rear, Intel® I219-LM, Intel® I210-AT)
PERIPHERAL CONNECTION	USB SERIAL PORT	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)
STORAGE & EXPANSION		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
POWER	CONNECTOR INPUT VOLTAGE POWER ADAPTER	Lockable DC Jack (on rear) DC 19 V 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 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
SYSTEM CONTROL & MONITORING	BUTTON, SWITCH & INDICATOR	1x Power Button w/ LED (on front) 1x Reset Button (on front) 1x HDD LED (on front) 1x Wireless LED (on front)
COOLING	FAN	1x CPU Smart Fan
SOFTWARE	OS SUPPORT	Windows 10, Linux
MECHANICAL	CONSTRUCTION DIMENSIONS (W x D x H) WEIGHT MOUNTING	Metal Chassis 200 mm x 152.8 mm x 40.5 mm / 7.87" x 6.02" x 1.59" 1000 g / 2.20 lb VESA Mount, Stand Mount
ENVIRONMENTAL	OPERATION TEMPERATURE STORAGE TEMPERATURE HUMIDITY	0 °C ~ 40 °C / 32 °F ~ 104 °F -20 °C ~ 80 °C / -4 °F ~ 176 °F 0 % ~ 90 %
CERTIFICATION	EMC & SAFETY	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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