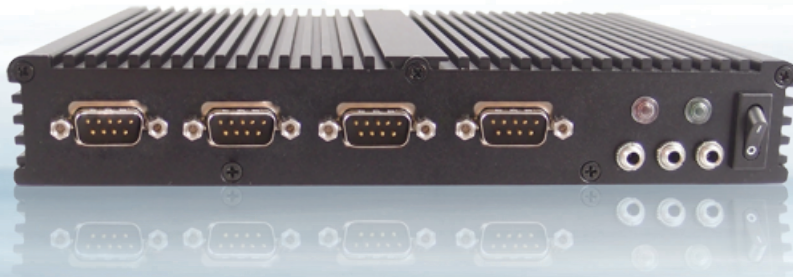


KBox E-100 SERIES

FANLESS, RUGGED & EXTENDED TEMPERATURE



FANLESS BOX PC WITH INTEL® ATOM® E3800 SERIES & CELERON® J1900 PROCESSORS

- ▶ 1x HDMI, 1x VGA for display output
- ▶ 2x GbE LAN for Ethernet
- ▶ 1x USB 3.2 Gen 1, 4x USB 2.0, 2x RS232/422/485, 2x RS232, 1x DIO for peripherals
- ▶ 1x 2.5" SATA 2.0 HDD / SSD Slot, up to 1x mSATA for storage
- ▶ Up to 2x mPCIe for expansion

POSSIBILITIES START HERE



KBox E-100 SERIES

FANLESS BOX PC WITH INTEL® ATOM® E3800 SERIES & CELERON® J1900 SOC PROCESSORS

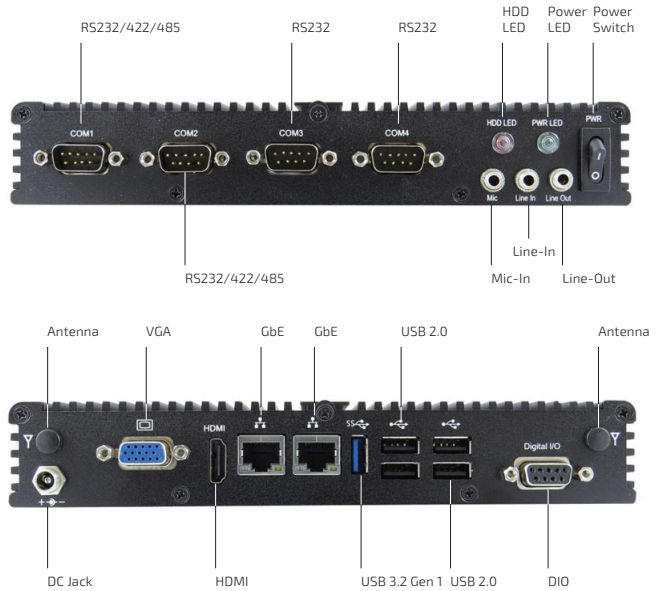
KBox E-100 Series is a fanless Box PC ideal for space critical applications. This embedded hardware platform is designed with Intel® Atom® E3800 Series and Celeron® J1900 SoC Processors which deliver excellent performance. The system is supported with DDR3L SO-DIMM up to 8 GByte. Featured are 1x 2.5" SATA HDD / SSD, 2x mini-PCIe slots, 2x GbE LAN, 1x USB 3.2 Gen 1, 4x USB 2.0, 1x

HDMI, 1x VGA, 4x COM and 1x DIO.

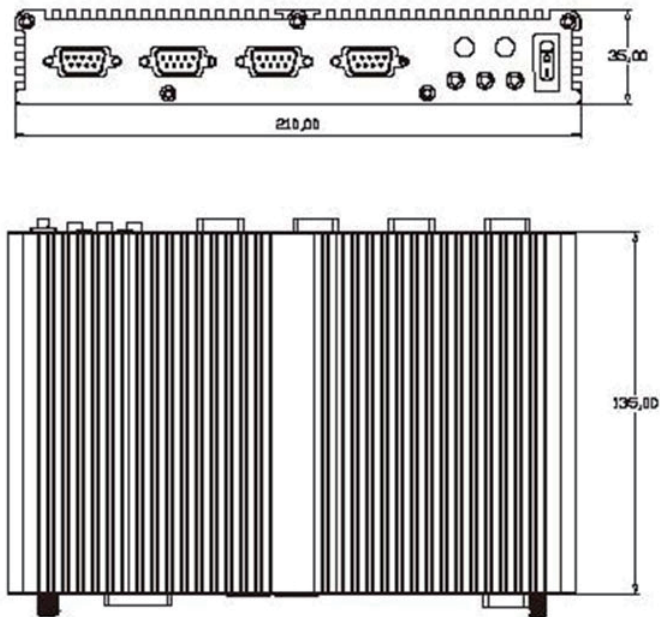
Enclosed within a rugged case, KBox E-100 Series has great protection against EMI, cold and heat. Also it is integrated with passive cooling design for quiet fanless operation. An extended temperature model is available for harsh temperature conditions.

▶ PRODUCT HIGHLIGHTS

- ▶ Intel® Atom® E3800 Series & Celeron® J1900 SoC Processors
- ▶ 1x DDR3L SO-DIMM memory socket
- ▶ 1x HDMI, 1x VGA for video output
- ▶ 2x GbE LAN for Ethernet
- ▶ 1x USB 3.2 Gen 1, 4x USB 2.0 for USB device connection
- ▶ 2x RS232/422/485, 2x RS232 for serial device connection
- ▶ 1x DIO for device / signal control
- ▶ 1x 2.5" SATA HDD / SSD, up to 1x mSATA for storage
- ▶ Up to 2x mPCIe for expansion
- ▶ Passive cooling design without fans nor vents
- ▶ Extended temperature model available



▶ MECHANICAL DIMENSIONS



unit: mm

► TECHNICAL INFORMATION

SYSTEM	PROCESSOR	Intel® Atom® E3845 (Quad Core, 2M Cache, 1.91 GHz, FCBGA1170, 10 W TDP) Intel® Celeron® J1900 (Quad Core, 2M Cache, 2.0 / 2.42 GHz, FCBGA1170, 10 W TDP)
	MEMORY	1x DDR3L 1333 MT/S SO-DIMM up to 8 GByte
VIDEO	GRAPHICS DISPLAY INTERFACE	Intel® HD Graphics 1x HDMI (on rear, 1920 x 1080 @ 60 Hz) 1x VGA (on rear, 2560 x 1600 @ 60 Hz)
	MULTIPLE DISPLAY	Dual
AUDIO	AUDIO CODEC AUDIO INTERFACE	Realtek ALC888S 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® I210-AT, 1x Realtek RTL8111G)
PERIPHERAL CONNECTION	USB	1x USB 3.2 Gen 1 (Type A on rear) 4x USB 2.0 (Type A on rear)
	SERIAL PORT	2x RS232/422/485 (DB9 on front)
	OTHER I/O PORT	2x RS232 (DB9 on front) 1x DIO (DB9 Female on rear)
STORAGE & EXPANSION	SATA mSATA / mPCIe	1x 2.5" SATA 2.0 HDD / SSD 1x mSATA / mPCIe (full size, w/ PCIe x1 / SATA / USB 2.0) 1x mPCIe (full size, w/ PCIe x1 / USB 2.0 / UIM)
	SIM CARD HOLDER	1x SIM Card Holder (optional)
POWER	INPUT VOLTAGE CONNECTOR	DC 12 V Lockable DC Jack (on rear)
FIRMWARE	BIOS WATCHDOG H/W MONITOR REAL TIME CLOCK SECURITY	AMI uEFI BIOS w/ 64 Mb SPI Flash Programmable WDT to generate system reset event Voltages, Temperatures SoC integrated RTC TPM 1.2 (optional for model with Celeron® J1900, Infineon SLB 9635)
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 7, Windows 8, Windows 10, Linux
MECHANICAL	CONSTRUCTION DIMENSIONS (W x D x H) WEIGHT MOUNTING	Aluminum Chassis 210 mm x 135 mm x 35 mm / 8.27" x 5.31" x 1.38" 1200 g / 2.65 lb VESA Mount (via VESA mount adapter)
ENVIRONMENTAL	OPERATING TEMPERATURE STORAGE TEMPERATURE HUMIDITY	0 °C ~ 50 °C / 32 °F ~ 122 °F (Standard) -20 °C ~ 70 °C / -4 °F ~ 158 °F (Extended) -20 °C ~ 80 °C / -4 °F ~ 176 °F 0 % ~ 90 %
COMPLIANCE	EMC & SAFETY	CE Class A, FCC Class A

▶ ORDERING INFORMATION

ARTICLE	DESCRIPTION
KBox E-100	Intel® Celeron® J1900, Operating Temperature: 0 °C ~ 50 °C
KBox E-101-ET	Intel® Atom® E3845, Operating Temperature: -20 °C ~ 70 °C

ACCESSORIES

ARTICLE	DESCRIPTION
POWER ADAPTER	Input: AC 90 V ~ 264 V, Output: 12 V @ 5 A max. 60 W, DC Jack w/ Lock
POWER CORD	EU / US / UK / JP / CN / AU type depending on country
VESA MOUNTING KIT *	1x bracket (hole pattern: 75 mm x 75 mm / 100 mm x 100 mm)
WIFI + BT EXPANSION KIT *	Wi-Fi 2.4 GHz / 5 GHz + Bluetooth 4.0 Class I, mPCIe interface, 2x antenna

The asterisk (*) means optional item.

▶ PRODUCT CONTACT POINT

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