

KBox E-300 SERIES

FANLESS & MINIATURE



FANLESS MINI BOX PC WITH INTEL® ATOM® E3900 SERIES PROCESSORS

- ▶ 2x HDMI for display output
- ▶ 2x GbE LAN for Ethernet
- ▶ 4x USB 3.0, 2x RS232/422/485 for peripheral connection
- ▶ 1x Micro-SD Cage for storage
- ▶ 1x mSATA / mPCIe, 1x M.2 Key A, 1x M.2 Key B for expansion

POSSIBILITIES START HERE



KBox E-300 SERIES

FANLESS MINI BOX PC WITH INTEL® ATOM® E3900 SERIES PROCESSORS

KBox E-300 Series is a fanless box PC based on low-power Intel® Atom® E3900 Series SoC Processors, ideal for entry-level computer or intelligent digital display. In addition, It has 2x HDMI, 2x GbE LAN, 4x USB 3.0 and 2x RS232/422/485 for display output, Ethernet and peripheral connection.

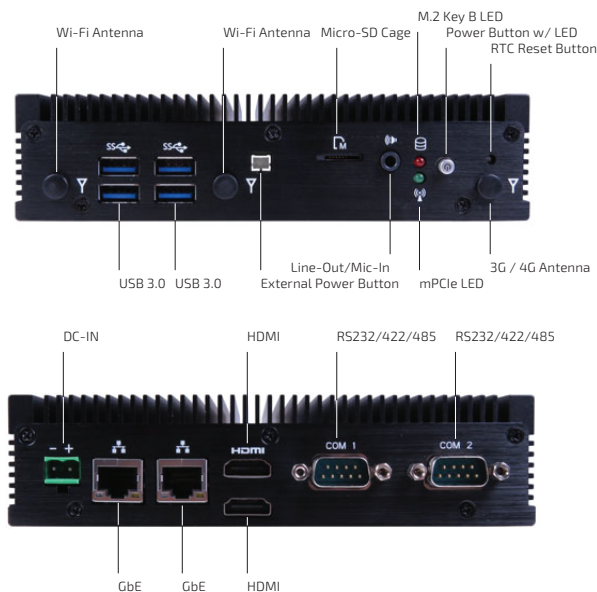
KBox E-300 Series provides high reliability rugged case not only for

great protection from EMI, cold and heat, but also integrated with passive cooling design for quiet fanless operation.

Finally, KBox E-300 Series reserves 1x mSATA / mPCIe, 1x M.2 Key A and 1x M.2 Key B, allowing users to expand wireless connection, storage and other functionality.

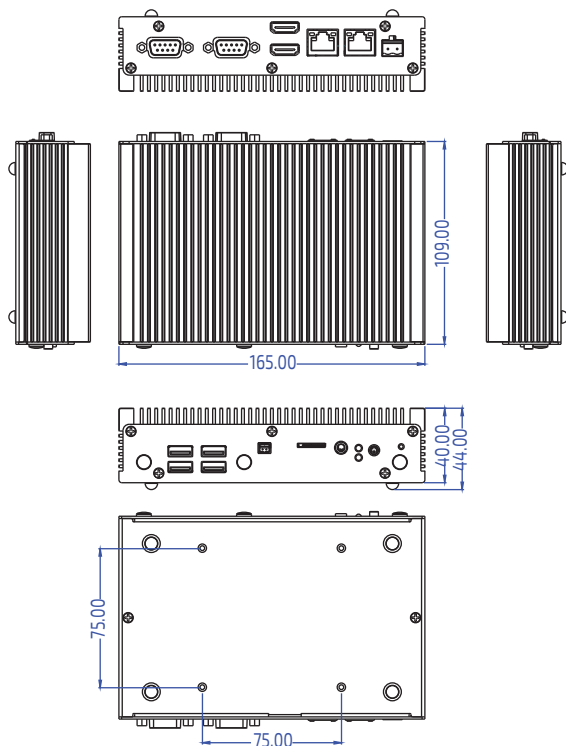
PRODUCT HIGHLIGHTS

- ▶ Intel® Atom® E3900 Series Processors
- ▶ 2x DDR3L SO-DIMM memory socket
- ▶ 2x HDMI for dual display support
- ▶ 2x GbE LAN for Ethernet
- ▶ 4x USB 3.0 for USB device connection
- ▶ 2x RS232/422/485 for serial device connection
- ▶ 1x Micro-SD Cage for data logging & software update
- ▶ 1x mSATA / mPCIe for SSD / WWAN / WLAN / Bluetooth expansion
- ▶ 1x M.2 Key A for WLAN / Bluetooth expansion
- ▶ 1x M.2 Key B for SSD / WWAN expansion
- ▶ Passive cooling design without fans nor vents
- ▶ Cableless design inside
- ▶ Mini size to fit into the palm
- ▶ Extended temperature model available: -20 °C ~ 70 °C

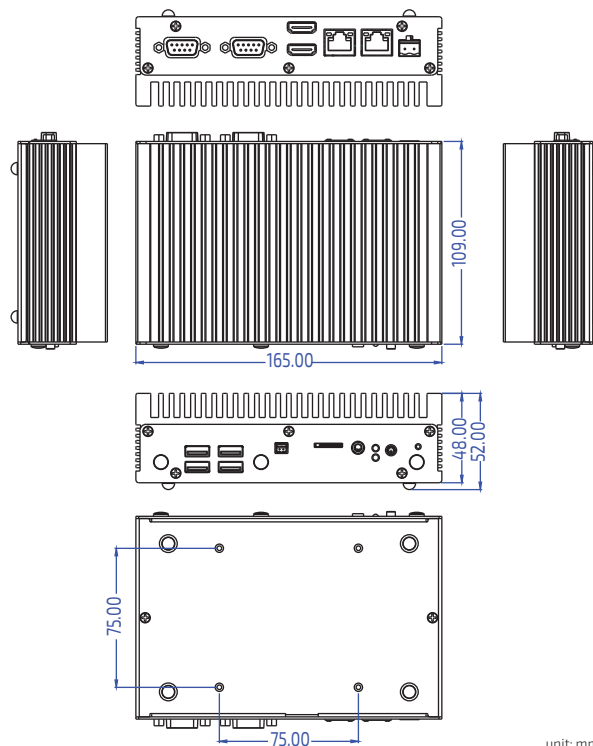


MECHANICAL DIMENSIONS

Standard Temperature Model



Extended Temperature Model



unit: mm

► TECHNICAL INFORMATION

SYSTEM	PROCESSOR	Intel® Atom® x5-E3940 (Quad Core, 2M Cache, up to 1.80 GHz, FCBGA1296, 9.5 W TDP) Intel® Atom® x7-E3950 (Quad Core, 2M Cache, up to 2.00 GHz, FCBGA1296, 12 W TDP)
	MEMORY	2x DDR3L 1867 SO-DIMM up to 8 GByte non-ECC
VIDEO	GRAPHICS	Intel® HD Graphics 500 (Atom® x5-E3940) Intel® HD Graphics 505 (Atom® x7-E3950)
	DISPLAY INTERFACE MULTIPLE DISPLAY	2x HDMI 1.4b (on rear) Dual
AUDIO	AUDIO CODEC AUDIO INTERFACE	Realtek ALC662 1x Line-out / Mic-in (on front)
NETWORK CONNECTION	ETHERNET	2x GbE LAN (RJ45 on rear, Intel® I210)
PERIPHERAL CONNECTION	USB SERIAL PORT	4x USB 3.0 (Type A on front) 2x RS232/422/485 (DB9 on rear)
STORAGE & EXPANSION	SD CARD HOLDER mSATA / mPCIe M.2 SIM CARD HOLDER	1x Micro-SD Cage (on front, w/o boot support) 1x mSATA / mPCIe (full size, w/ USB 2.0, SATA & PCIe, switchable via BIOS) 1x M.2 Key A (Type 2230, mixed with mPCIe) 1x M.2 Key B (Type 2242 / 2280, mixed with USB 2.0 & SATA) 1x Micro SIM Card Cage (switch for M.2 Key B & mPCIe)
POWER	INPUT VOLTAGE CONNECTOR	DC 9 V ~ 24 V 2-pin Phoenix Connector (on rear)
FIRMWARE	BIOS WATCHDOG H/W MONITOR REAL TIME CLOCK TPM	AMI uEFI BIOS w/ 128 Mb SPI Flash Programmable WDT to generate system reset event Voltages, Temperatures SoC integrated RTC Optional (Infineon SLB9665 TPM 2.0)
SYSTEM CONTROL & MONITORING	BUTTON, SWITCH & INDICATOR	1x Power Button w/ LED (on front) 1x RTC Reset Button (on front) 1x External Power Button (on front) 1x M.2 Key B Activity LED (on front) 1x mPCIe Activity 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 165 mm x 109 mm x 40 mm / 6.50" x 4.29" x 1.57" (Standard temp. model) 165 mm x 109 mm x 48 mm / 6.50" x 4.29" x 1.89" (Extended temp. model) 750 g / 1.65 lb VESA Mount
ENVIRONMENTAL	OPERATION 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 %
CERTIFICATION	EMC & SAFETY	CE Class A, FCC Class A

► ORDERING INFORMATION

ARTICLE	DESCRIPTION
KBox E-303	Intel® Atom® x5-E3940, Operating temperature: 0 °C ~ 50 °C
KBox E-304	Intel® Atom® x7-E3950, Operating temperature: 0 °C ~ 50 °C
KBox E-303-ET	Intel® Atom® x5-E3940, Operating temperature: -20 °C ~ 70 °C

OPTIONAL ACCESSORIES

VESA MOUNTING KIT	Hole pattern: 75 mm x 75 mm
POWER ADAPTER	Input: AC 100 V ~ 240 V, Output: DC 12 V, 40 W

► PRODUCT CONTACT POINT

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