

KBox P-100 SERIES

FANLESS, MINIATURE



FANLESS MINI BOX PC WITH INTEL® ATOM® E3800 SERIES & CELERON® N2000 SERIES CPU

- ▶ 1x HDMI, 1x VGA for display output
- ▶ 1x GbE LAN for Ethernet
- ▶ 1x USB 3.0, 2x USB 2.0, 1x RS232/422/485 for peripheral connection
- ▶ 1x mSATA, up to 1x Micro-SD Cage for storage
- ▶ 1x mPCIe for expansion

POSSIBILITIES START HERE



KBox P-100 SERIES

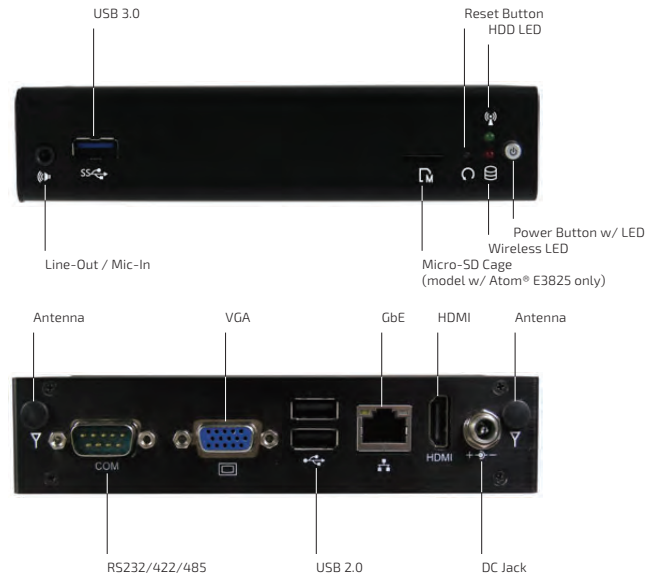
FANLESS MINI BOX PC WITH INTEL® ATOM® E3800 SERIES & CELERON® N2000 SERIES PROCESSORS

The KBox P-100 Series is a fanless rugged box PC ideal for extreme space critical applications. This embedded hardware platform is powered by Intel® Atom® E3800 Series & Celeron® N2000 Series processors. It comes with 1x HDMI, 1x VGA, 1x USB 3.0, 2x USB 2.0, 1x GbE LAN, 1x mSATA, 1x mPCIe, up to 1x Micro-SD card cage, 1x COM.

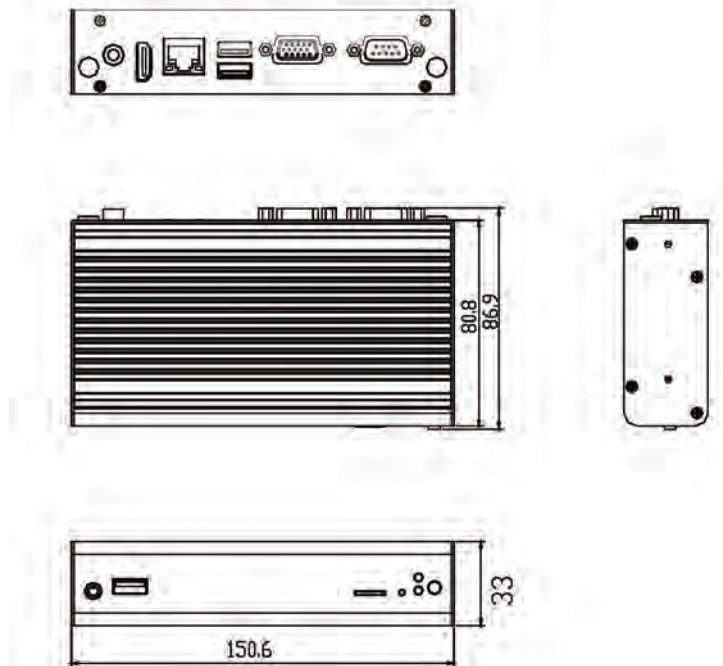
The KBox P-100 Series provides high reliability rugged case not only for great protection from EMI, cold and heat, but also integrated with passive cooling design for quiet fanless operation such as Transportation, Surveillance.

▶ PRODUCT HIGHLIGHTS

- ▶ Intel® Atom® E3800 Series & Celeron® N2000 Series processors
- ▶ 1x DDR3L SO-DIMM memory socket
- ▶ 1x HDMI, 1x VGA for video output
- ▶ 1x GbE LAN for Ethernet
- ▶ 1x USB 3.0, 2x USB 2.0 for USB device connection
- ▶ 1x RS232/422/485 for serial device connection
- ▶ 1x mSATA, up to 1x Micro-SD Cage for storage
- ▶ 1x mPCIe for expansion
- ▶ Passive cooling design without fans nor vents
- ▶ Mini size to fit into the palm
- ▶ Extended temperature model available: -20 °C – 70 °C



▶ MECHANICAL DIMENSIONS



unit: mm

► TECHNICAL INFORMATION

SYSTEM	PROCESSOR	Intel® Atom® E3825 (Dual Core, 1M Cache, 1.33 GHz, FCBGA1170, 6 W TDP)
	MEMORY	Intel® Celeron® N2930 (Quad Core, 2M Cache, up to 2.16 GHz, FCBGA1170, 7.5 W TDP) Intel® Celeron® N2807 (Dual Core, 1M Cache, up to 2.16 GHz, FCBGA1170, 4.3 W TDP) 1x DDR3L 1067 SO-DIMM up to 4 GByte (Model w/ E3825, N2807) 1x DDR3L 1067 SO-DIMM up to 8 GByte (Model w/ N2930)
VIDEO	GRAPHICS DISPLAY INTERFACE	Intel® HD Graphics 1x HDMI (on rear, 1920 x 1080 @ 60 Hz)
	MULTIPLE DISPLAY	1x VGA (on rear, 2560 x 1600 @ 60 Hz) Dual
AUDIO	AUDIO CODEC AUDIO INTERFACE	Realtek ALC662 1x Line-out / Mic-in (on front)
NETWORK CONNECTION	ETHERNET	1x GbE LAN (RJ45 on rear, Realtek RTL8111G)
PERIPHERAL CONNECTION	USB	1x USB 3.0 (Type A on front) 2x USB 2.0 (Type A on rear)
	SERIAL PORT	1x RS232/422/485 (DB9 on rear)
STORAGE & EXPANSION	mSATA	1x mSATA (full size)
	MICRO-SD CAGE	1x Micro-SD Cage (on front, model w/ Atom® E3825)
	mPCIe	1x mPCIe (full size)
	SIM CARD HOLDER	1x SIM Card Cage
POWER	INPUT VOLTAGE CONNECTOR	DC 12 V Lockable DC Jack (on rear)
FIRMWARE	BIOS WATCHDOG H/W MONITOR REAL TIME CLOCK TPM	AMI uEFI BIOS w/ 64 Mb SPI Flash Programmable WDT to generate system reset event Voltages, Temperatures SoC integrated RTC Optional (Infineon SLB 9635 TPM 1.2)
SYSTEM CONTROL & MONITORING	BUTTON, SWITCH & INDICATOR	1x Power Button w/ LED (on front) 1x Reset Button (on front) 1x Wireless 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 151 mm x 81 mm x 33 mm / 5.94" x 3.19" x 1.30" 500 g / 1.10 lb VESA Mount
ENVIRONMENTAL	OPERATING TEMPERATURE	0 °C ~ 50 °C / 32 °F ~ 122 °F (Standard) -20 °C ~ 70 °C / -4 °F ~ 158 °F (Extended)
	STORAGE TEMPERATURE HUMIDITY	-20 °C ~ 80 °C / -4 °F ~ 176 °F 0 % ~ 90 %
CERTIFICATION	EMC & SAFETY	CE Class A, FCC Class A

▶ ORDERING INFORMATION

ARTICLE	DESCRIPTION
KBox P-100	Intel® Atom® E3825, 1x Micro-SD Cage, Operating temperature: 0 °C ~ 50 °C
KBox P-100-ET	Intel® Atom® E3825, 1x Micro-SD Cage, Operating temperature: -20 °C ~ 70 °C
KBox P-101	Intel® Celeron® N2930, Operating temperature: 0 °C ~ 50 °C
KBox P-102	Intel® Celeron® N2807, Operating temperature: 0 °C ~ 50 °C
ACCESSORIES	
POWER ADAPTER	Input: AC 100 V ~ 240 V, Output: DC 12 V
POWER CORD	EU / US / UK / JP / CN / AU type depending on country
VESA MOUNTING KIT *	Hole pattern: 75 mm x 75 mm

The asterisk (*) means optional item.

▶ PRODUCT CONTACT POINT

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