

# KBox E-300 SERIES

## FANLESS & MINIATURE

---



### FANLESS MINI BOX PC WITH INTEL® APOLLO LAKE SOC 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 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® APOLLO LAKE SOC PROCESSORS

KBox E-300 Series is a fanless box PC based on low-power Intel® Apollo Lake 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.

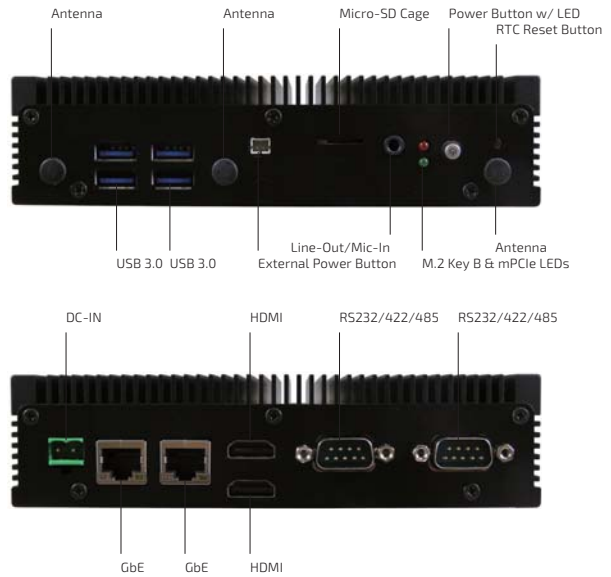
KBox E-300 Series provides high reliability rugged case not only for

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

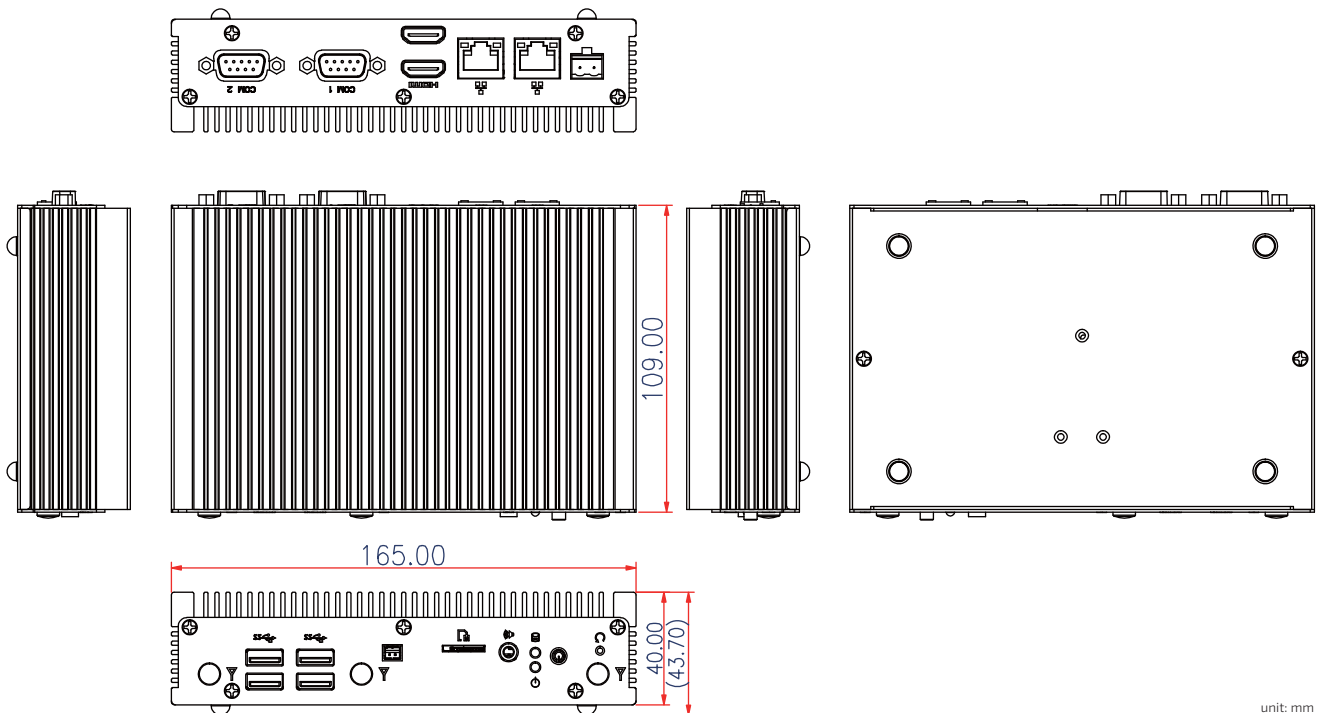
Finally, KBox E-300 Series reserves 1x mPCIe, 1x M.2 Key A and 1x M.2 Key B, allowing users to expand wireless connection, storage and other functionality.

#### ▶ PRODUCT HIGHLIGHTS

- ▶ Intel® Apollo Lake SoC Processors
- ▶ 2x DDR3L SO-DIMM memory socket
- ▶ 2x HDMI for video output
- ▶ 2x GbE LAN for Ethernet
- ▶ 4x USB 3.0, 2x RS232/422/485 for peripherals
- ▶ 1x Micro-SD Cage for storage
- ▶ 1x mPCIe, 1x M.2 Key A, 1x M.2 Key B for expansion
- ▶ Passive cooling design without fans and vents
- ▶ Mini size to fit into the palm



#### ▶ MECHANICAL DIMENSIONS



unit: mm

## ► TECHNICAL INFORMATION

System	Processor	Intel® Celeron® N3350 (Dual Core, 2M Cache, up to 2.4 GHz, FCBGA1296, 6 W TDP) Intel® Pentium® N4200 (Quad Core, 2M Cache, up to 2.5 GHz, FCBGA1296, 6 W TDP)
	Memory	2x DDR3L 1867 50-DIMM up to 8 GByte non-ECC
Video	Graphics	Intel® HD Graphics 500 (Celeron® N3350) Intel® HD Graphics 505 (Pentium® N4200)
	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	4x USB 3.0 (Type A on front)
	Serial Port	2x RS232/422/485 (DB9 on rear)
Storage & Expansion		1x Micro-SD Cage (on front, w/o boot support) 1x mPCIe (mixed with with USB 2.0, SATA & PCIe) 1x M.2 Key A (mixed with mPCIe) 1x M.2 Key B (mixed with USB 2.0 & SATA) 1x Micro SIM Card Cage (switch for M.2 Key B & mPCIe)
Power	Connector Input Voltage Power Adapter	Phoenix Connector (on rear) DC 9 V ~ 24 V AC to DC, 100 V ~ 240 V
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	Aluminum Chassis
	Dimensions (W x D x H) Weight Mounting	165 mm x 109 mm x 40 mm / 6.50" x 4.29" x 1.57" 750 g / 1.65 lb VESA Mount
Environmental	Operation Temperature	0 °C ~ 50 °C / 32 °F ~ 122 °F
	Storage Temperature Humidity	-20 °C ~ 80 °C / -4 °F ~ 176 °F 0 % ~ 90 %
Certification	EMC & Safety	CE, FCC Class A

## ▶ ORDERING INFORMATION

ARTICLE	DESCRIPTION
KBox E-300	Intel® Celeron® N3350
KBox E-301	Intel® Pentium® N4200
<b>OPTIONAL ACCESSORIES</b>	
VESA MOUNTING KIT	Hole pattern: 75 mm x 75 mm

## ▶ GLOBAL HEADQUARTERS

### KONTRON S&T AG

Lise-Meitner-Str. 3-5  
86156 Augsburg, Germany  
Tel.: + 49 821 4086 0  
Fax: + 49 821 4086 111  
info@kontron.com  
[www.kontron.com](http://www.kontron.com)