KBox N-120-ADN

Fanless Network Security Appliance with Intel® Core™ i3 N-Series & Intel® N-Series Processors
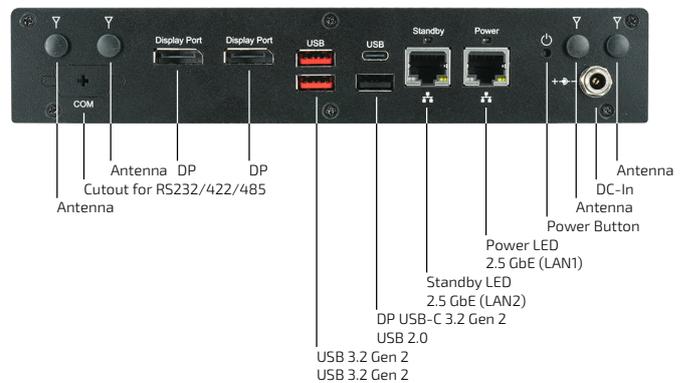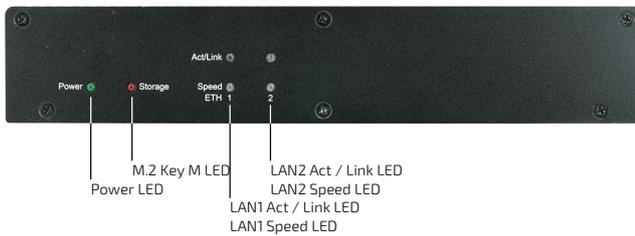
❯ 2x 2.5 GbE LAN port for optimized bandwidth utilization

❯ 1x M.2 Key B, 1x M.2 Key E for Wi-Fi & WWAN wireless expansion

❯ Hardware-based protection against malware and sophisticated cyberattacks

❯ Passive cooling design for quiet operation

❯ Friendly LED indicators for quick status checks

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The Power of IoT

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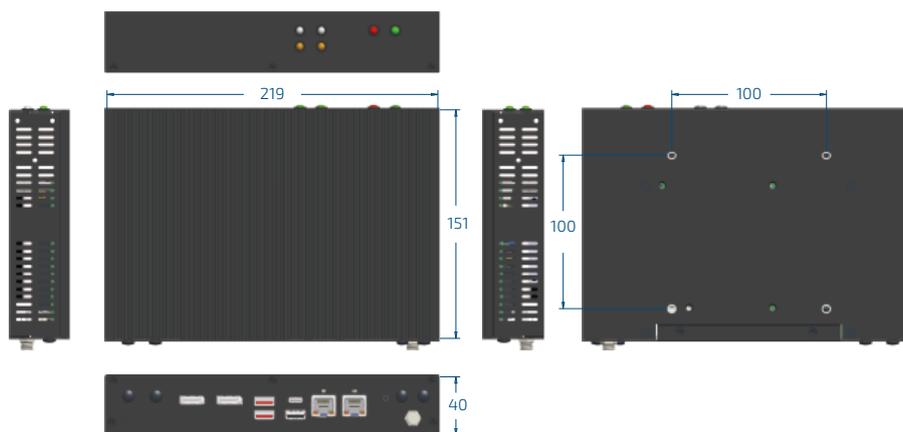
KBox N-120-ADN is a fanless network security appliance powered by Intel® Core™ i3 N-Series and Intel® N-Series Series (codenamed Alder Lake N) processors. Besides two 2.5 GbE LAN ports, it reserves one M.2 Key E slot and one M.2 Key B slot, allowing system integra-

tors or users to expand Wi-Fi and / or WWAN (3G, 4G or 5G) wireless communication modules respectively according to application requirements. It is an ideal entry-level appliance for edge security controls at small and medium-sized enterprises.

- Intel® Core™ i3 N-Series Processors
- Intel® N-Series Processors
- 1x DDR5 SO-DIMM memory socket
- 2x 2.5 GbE LAN for Ethernet
- 3x DP (2x full DP, 1x USB-C) for triple display support
- 3x USB 3.2 Gen 2 (2x Type A, 1x Type C), 1x USB 2.0 for USB
- 1x 2.5" SATA 3.0 HDD / SSD for storage

- 1x M.2 Key B for SSD, WWAN expansion
- 1x M.2 Key E for WLAN and Bluetooth expansion
- 1x M.2 Key M for SSD
- TPM 2.0 support
- Passive cooling design
- Friendly LED indicators

Mechanical Dimensions

unit: mm

Technical Information

SYSTEM	PROCESSOR MEMORY	Intel® Core™ i3-N305 (Octa Core, 6M Cache, 1.8 / 3.8 GHz, 15 W TDP) Intel® N97 (Quad Core, 6M Cache, 2.0 / 3.6 GHz, 12 W TDP) 1x DDR5 4800 SO-DIMM up to 16 GByte
VIDEO	GRAPHICS DISPLAY INTERFACE MULTIPLE DISPLAY	Intel® UHD Graphics Gen12 3x DP (4096 x 2160 @ 60 Hz, 2x Full-size DP on rear, 1x DP USB-C on rear) Triple Display
NETWORK CONNECTION	ETHERNET	2x 2.5 GbE LAN (RJ45 on rear, Intel® I226-V)
PERIPHERAL CONNECTION	USB SERIAL PORT	3x USB 3.2 Gen 2 (2x Type A on rear, 1x Type C (w/ DP & PD 5 V / 3 A) on rear) 1x USB 2.0 (Type A on rear) 1x RS232/422/485 (optional, DB9 on rear, Tx / Rx only for RS232)
STORAGE & EXPANSION	SATA M.2 SIM CARD HOLDER	1x 2.5" SATA 3.0 HDD / SSD 1x M.2 Key B (Type 2242 / 3042 / 3052 / 2280, w/ PCIe x1 / USB 2.0 / UIM) 1x M.2 Key E (Type 2230, w/ PCIe x1 / USB 2.0 / CNVi) 1x M.2 Key M (Type 2280, w/ SATA 3.0 (default) / PCIe x1 (optional)) 1x SIM Card Holder (optional, by header)
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/ 256 Mb SPI Flash Programmable WDT to generate system reset event Voltages, Temperatures Processor integrated RTC TPM 2.0 Support (Infineon SLB 9672)
SYSTEM CONTROL & MONITORING	BUTTON, SWITCH & INDICATOR	1x Power Button (on rear) 2x Power LED (1x on front, 1x on rear) 1x Standby LED (on rear) 1x M.2 Key M Storage LED (on front) 2x LAN Act / Link LED (on front, orange) 2x LAN Speed LED (on front, 10/100: off / 1000: yellow / 2.5G: green)
COOLING	COOLING METHOD	Passive
SOFTWARE	OS SUPPORT	Windows 11, Windows 10, Linux
MECHANICAL	CONSTRUCTION DIMENSION (W x D x H) WEIGHT MOUNTING	Aluminum + Metal Chassis 219 mm x 151 mm x 40 mm / 8.62" x 5.94" x 1.57" 1420 g / 3.13 lb VESA Mount (100 mm x 100 mm) Rackmount Desktop
ENVIRONMENTAL	OPERATING TEMPERATURE STORAGE TEMPERATURE HUMIDITY	0 °C ~ 50 °C / 32 °F ~ 122 °F -20 °C ~ 80 °C / -4 °F ~ 176 °F 0 % ~ 95 %
COMPLIANCE	EMC & SAFETY	CE Class B, FCC Class B, ICES Class B, UKCA

Ordering Information

ARTICLE	PROCESSOR
KBox N-120-ADN-0-N97	Intel® N97
KBox N-120-ADN-3-i3-N305	Intel® Core™ i3-N305

Accessories

ARTICLE	DESCRIPTION
POWER ADAPTER*	AC 90 V ~ 264 V to DC 12 V @ 5 A max. 60 W, DC Jack
POWER CORD*	EU / US / UK / JP / CN / AU type depending on country
WI-FI + BLUETOOTH EXPANSION KIT*	Wi-Fi 2.4 GHz / 5 GHz + Bluetooth 4.0 Class I, M.2 Key-A/E interface, 2x antenna

The asterisk (*) means optional item.

Product Contact Point

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