

**iBOX-N97 R2**  
Fanless Embedded BOX PC



**KEY FEATURES**

- Intel® Alder Lake-N SoC Processor N97
- 1 x 260-pin SO-DIMM DDR4 3200 MHz, up to 32GB
- 6 x USB 3.2 Gen2, 1 x M.2 Key E, 1 x M.2 Key M, 1 x COM, 1 x SATA3
- 2 x Realtek 2.5 Gigabit LAN
- Supports Triple display, 2 x HDMI 2.0b, 2 x DP 1.4a (From Type-C)
- TPM 2.0 onboard IC
- 19V/65W Power Adapter
- 135 x 110 x 44.5mm (5.31" x 4.33" x 1.75"), Fanless Embedded BOX PC

**SPECIFICATIONS**

**Processor System**

CPU	Intel® Alder Lake-N SoC Processors iBOX-N97 R2 (N97, QC, Max Speed Up to 3.6GHz, 12W)
Chipset	SoC
BIOS	AMI SPI 256 Mbit

**Memory**

Technology	Single Channel DDR4 3200 MHz
Capacity	32GB
Socket	1 x 260-pin SO-DIMM

**Graphics**

Controller	Intel® UHD Graphics
HDMI	HDMI 2.0b Max resolution up to 4096x2160@60Hz
DisplayPort	DisplayPort 1.4a, DP++ Max resolution up to 4096x2160@60Hz
MultiDisplay	Triple-Display (Included 2 outputs from Type-C)

**Expansion Slot**

M.2	1 x M.2 (Key E, 2230) with PCIe x1, USB 2.0 and CNVi for Wireless
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**Audio**

Interface	Realtek ALC256, High Definition Audio
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**Ethernet**

Controller/ Speed	LAN1: Realtek RTL8125BG with 10/100/1000/2500 Mbps LAN2: Realtek RTL8125BG with 10/100/1000/2500 Mbps
Connector	2 x RJ-45

**Storage**

M.2	1 x M.2 (KEY M, 2242/2260/2280) with PCIe Gen3 x1 and SATA3 for SSD *M.2 Key M 2280 (Supported by bracket)
SATA	1 x SATA3.0 (6.0 Gb/s)

**Front I/O**

USB	2 x USB 3.2 Gen2 (Type-A) 2 x USB 3.2 Gen2 (Type-C, Supports DP 1.4a display output)
COM	1 x COM (RS-232)
Audio	1 (headphone & microphone jack)

**Rear I/O**

HDMI	2 x HDMI 2.0b
Ethernet	2 x 2.5 Gigabit LAN
USB	2 x USB 3.2 Gen2 (Type-A)
DC Jack	1

**Watchdog Timer**

Output	From Super I/O to drag RESETCON#
Interval	256 Segments, 0, 1, 2, ..., 255sec

**Power Requirements**

Input PWR	1 x 19V/65W Power Adapter
Power On	AT/ATX Supported - AT : Directly PWR on as power input ready - ATX : Press button to PWR on after power input ready

**Environment**

Operating Temp	-20°C ~ 40°C with air flow 0.5-0.8 m/s (with extended temp. peripherals)
Storage Temp	-40° C ~ 85° C
Operating Humidity	5% ~ 90%
Storage Humidity	5% ~ 90%

**Mechanical**

Construction	Aluminum housing
Mounting	VESA mount/Wall mount/Din-rail
Dimensions (L x W x H)	135 x 110 x 44.5mm (5.31" x 4.33" x 1.75")
Weight	Net Weight: 0.7kg

**Others**

OS Support	Windows 10/11
TPM	TPM 2.0 onboard IC
Certifications	CE, FCC
Packing List	1 x 19V/65W Power Adapter 1 x Wall mount kit

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than original product specification is not guaranteed.

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