# iBOX Core 300 Series
## iBOX-320, iBOX-304
## Fanless Embedded BOX PC







## KEY FEATURES

- Intel® Core Processors Series 3 (Wildcat Lake -U)
- 1 x 262-pin SO-DIMM DDR5 6400MHz up to 64GB, supports In-Band ECC
- 2 x USB3.2 Gen2x2, 3 x USB3.2 Gen1, 2 x USB 2.0, 2 x M.2 Key M, 1 x M.2 Key E, 1 x COM
- 1 x Intel 2.5 Gigabit LAN, 1 x Realtek 2.5 Gigabit LAN
- Supports Triple display, 2 x HDMI 2.1, 2 x DP 1.4a (from Type-C)
- Intel® PTT
- OOB Function ( BOM Optional)
- 200 x 176.6 x 53.6mm (7.87" x 6.95" x 2.11"), Fanless Embedded BOX PC

## SPECIFICATIONS

### Processor System

| | |
|---|---|
| CPU | Intel® Core Processors Series 3 (Wildcat Lake -U)<br>iBOX-320 (Core™ 5 320, 2P+4LPE)<br>iBOX-304 (Core™ 3 304, 1P+4LPE)<br>*All CPU sku can support In-Band ECC |
| Chipset | MCP |
| BIOS | AMI SPI 256 Mbit |

### Memory

| | |
|---|---|
| Technology | Single Channel DDR5 6400 MHz |
| Capacity | 64GB |
| Socket | 1 x 262-pin SO-DIMM |

### Graphics

| | |
|---|---|
| Controller | Intel® Graphics |
| HDMI | HDMI 2.1<br>Max resolution up to 4096x2160@60Hz |
| DisplayPort | DisplayPort 2.1/ 1.4a<br>Max resolution up to 4096x2160@60Hz |
| MultiDisplay | Max 3 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 |

### Audio

| | |
|---|---|
| Interface | Realtek ALC256, High Definition Audio |

### Ethernet

| | |
|---|---|
| Controller/ Speed | LAN1: Intel® I226V with 10/100/1000/2500 Mbps<br>LAN2: Realtek RTL8125BG with 10/100/1000/2500 Mbps |
| Connector | 2 x RJ-45 |

### Storage

| | |
|---|---|
| M.2 | 1 x M.2 (KEY M, 2242) with PCIe Gen4 x1 for SSD<br>1 x M.2 (KEY M, 2242/2280) with PCIe Gen4 x2 for SSD |

### Front I/O

| | |
|---|---|
| USB | 1 x USB 3.2 Gen1 (Type-A)<br>2 x USB3.2 Gen2x2 (Type-C, 5V/3A, Supports DP1.4a display output)<br>2 x USB 2.0<br>*For Thunderbolt support, please refer to support list. |
| Audio | 1 (headphone & microphone jack) |
| COM | 1 x COM (RS-232/422/485) |

### Rear I/O

| | |
|---|---|
| HDMI | 2 x HDMI 2.1 |
| Ethernet | 2 x 2.5 Gigabit LAN |
| USB | 2 x USB 3.2 Gen2 (Type-A) |
| DC Jack | 1 |
| OOB | Supports Remote Power On/Off/Reset (BOM Optional) |

### Watchdog Timer

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

### Power Requirements

| | |
|---|---|
| Input PWR | 12V~24V DC-In Jack |
| Power On | AT/ATX Supported<br>- AT : Directly PWR on as power input ready<br>- ATX : Press button to PWR on after power input ready |

### Environment

| | |
|---|---|
| Operating Temp | -20°C ~ 50°C with air flow 0.5~0.8 m/s<br>(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) | 200 x 176.6 x 53.6mm (7.87" x 6.95" x 2.11") |
| Weight | Net Weight: 3Kg |

### Others

| | |
|---|---|
| OS Support | Windows 10/11 |
| TPM | Intel® PTT |
| Certifications | CE, FCC |
| Packing List | 1 x 19V/90W Power Adapter<br>1 x VESA mount bracket |

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