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) iBOX-320 (Core™ 5 320, 2P+4LPE) iBOX-304 (Core™ 3 304, 1P+4LPE) *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 Max resolution up to 4096x2160@60Hz
DisplayPort	DisplayPort 2.1/ 1.4a 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 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 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) 2 x USB3.2 Gen2x2 (Type-C, 5V/3A, Supports DP1.4a display output) 2 x USB 2.0 *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 - AT : Directly PWR on as power input ready - 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 (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 1 x VESA mount bracket

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