iBOX Ultra 100 Series

iBOX-155U, iBOX-125U

Fanless Embedded BOX PC

ASRock Industrial

KEY FEATURES

- Intel® Core™ Ultra processors (Meteor Lake-U)
- 2 x 262-pin SO-DIMM DDR5 5600MHz up to 96GB (48GB per DIMM)
- 1 x USB4/Thunderbolt™4, 4 x USB3.2 Gen2, 2 x USB 2.0, 2 x M.2 Key M, 1 x M.2 Key E, 1 x COM, 1 x SATA3
- 2 x Intel 2.5 Gigabit LAN
- Supports Quad display, 2 x HDMI 2.1 TMDS, 1 x DP 2.1 (from USB4), 1 x DP 1.4a (from Type-C)
- Intel PTT
- Supports Intel® vPro, VMD RAID 0/1
- 19V/90W Power Adapter
- 171.8 x 109.45 x 50.05mm (6.76" x 4.31" x 1.97"), Fanless Embedded BOX PC

SPECIFICATIONS

Processor System

CPU	Intel® Core™ Ultra processors (Meteor Lake-U) iBOX-155U (Ultra 7 155U, 2P+8E) iBOX-125U (Ultra 5 125U, 2P+8E)
Chipset	MCP
BIOS	AMI SPI 256 Mbit

Memory

Technology	Dual Channel DDR5 5600 MHz
Capacity	96GB (48GB per DIMM)
Socket	2 x 262-pin SO-DIMM

Graphics

Controller	Intel® Graphics
HDMI	HDMI 2.1 TMDS Max resolution up to 4096x2160@60Hz
DisplayPort	DisplayPort 2.1/ 1.4a, DP++ Max resolution up to 4096x2160@60Hz
MultiDisplay	Quad-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 I226LM with 10/100/1000/2500 Mbps, supports vPro LAN2: Intel I226V with 10/100/1000/2500 Mbps
Connector	2 x RJ-45

Storage

M.2	1 x M.2 (KEY M, 2242) with PCIe Gen4 x4 for SSD 1 x M.2 (KEY M, 2242/2280) with PCIe Gen4 x4 for SSD
SATA	1 x SATA3.0 (6.0 Gb/s)

Front I/O

USB	1 x USB 3.2 Gen2 (Type A) 1 x USB4/Thunderbolt™ 4 (5V/3A, Supports DP 2.1 display output) 1 x USB3.2 Gen2 x2 (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)

Rear I/O

HDMI	2 x HDMI 2.1 TMDS
Ethernet	2 x 2.5 Gigabit LAN
USB	2 x USB 3.2 Gen2 (Type-A)
DC Jack	1
COM	1 x COM(RS-232)

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 ~ 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)	171.8 x 109.45 x 50.05mm (6.76" x 4.31" x 1.97")
Weight	Net Weight:1.6Kg

Others

OS Support	Windows 10/11
TPM	Intel® PTT
Certifications	CE, FCC
Packing List	1 x 19V/90W 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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