iBOX-250J

Fanless Embedded BOX PC

Audio

Interface	Realtek ALC233/256 HD, High Definition Audio

Ethernet

Controller/ Speed	LAN1: Intel® I225LM/I225V with 10/100/1000/2500 Mbps LAN2: Intel® I225LM/I225V with 10/100/1000/2500 Mbps
Connector	2 x RJ-45

Storage

M.2	1 x M.2 (Key M, 3042/3060/2280) with PCIe x1 for SSD
SATA	1 x SATA3 (6Gb/s)

Front I/O

USB	2 x USB 2.0
COM	3 x COM (RS-232)

Rear I/O

HDMI	1 x HDMI2.0b
VGA	1
Ethernet	2 x 2.5 Gigabit LAN
USB	1 x USB 3.2 Gen2, 1 x USB 2.0

KEY FEATURES

- Intel® Elkhart Lake SoC Processors J6412

- 2 x 260-pin SO-DIMM DDR4 3200 MHz, up to 32GB(16GB per DIMM)

- 1 x USB 3.2 Gen2, 3 x USB 2.0, 1 x M.2 Key E, 1 x M.2 Key M, 3 x COM, 1 x SATA3

- 2 x Intel 2.5 Gigabit LAN

- Supports dual display, 1 x HDMI2.0b, 1 x VGA

- 1 x 19V/65W AC-DC power brick adapter

- 200 x 134.5 x 39mm (7.87" x 5.3" x 1.54"), Fanless Barebone

Watchdog Timer

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

Power Requirements

Input PWR	9~36V DC-In
Power On	AT/ATX Supported - AT : Directly PWR on as po wer input ready - ATX : Press button to PWR on after po wer input ready

SPECIFICATIONS

Processor System

CPU	Intel® Elkhart Lake SoC Processors iBOX-250J (J6412, QC, Max Speed Up to 2.6GHz, 10W)
Chipset	SoC
BIOS	AMI SPI 256 Mbit

Memory

Technology	Dual Channel DDR4 3200 MHz
Capacity	32GB (16GB per DIMM)
Socket	2 x 260-pin SO-DIMM

Graphics

Controller	Intel® Gen 11 Graphics
HDMI	HDMI 2.0b Max resolution up to 4096 x 2160@60Hz
VGA	Max resolution up to 1920x1200@60Hz
MultiDisplay	Dual Display

Environment

Operating Temp	-20ºC ~ 50ºC (With extended temp. peripherals)
Storage Temp	-40° C – 85° C
Operating Humidity	10% ~ 90%
Storage Humidity	10% ~ 90%

Mechanical

Construction	Aluminum housing
Mounting	VESA mount/Wall mount/Din-rail
Dimensions (L x W x H)	200 x 134.5 x 39mm (7.87" x 5.3" x 1.54")
Weight	Net Weight:1.3kg

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