

iBOX-8365UE

Fanless Embedded BOX PC



IoT Solutions
Alliance

ASRock
— Industrial —



KEY FEATURES

- Intel® 8th Gen (Whiskey lake-U) Core™ Processors
- 2 x 260-pin SO-DIMM up to 32GB DDR4 2400 MHz (16GB per DIMM)
- 3 x USB 3.2 Gen2, 2 x USB 2.0, 1 x M.2 Key M, 1 x M.2 Key E, 1 x COM, 1 x SATA3
- 1 x Intel 1 Gigabit LAN, 1 x Realtek 1 Gigabit LAN
- Supports triple display, 1 x HDMI 1.4, 2 x DP 1.2a
- TPM 2.0 onboard IC
- 12V DC-In
- 171.8 x 150 x 71.5 mm, Fanless Barebone

SPECIFICATIONS

Processor System

CPU	Intel® 8th Gen (Whiskey lake-U) Core™ Processors -iBOX-8145UE (I3-8145UE DC, up to 3.90 GHz) -iBOX-8365UE (I5-8365UE QC, up to 4.10 GHz) -iBOX-8665UE (I7-8665UE QC, up to 4.40 GHz)
Chipset	SoC
Socket	N/A
BIOS	AMI SPI 128 Mbit

Memory

Technology	Dual Channel DDR4 2400 MHz
Capacity	32 GB (16 GB per DIMM)
Socket	2 x 260-pin SO-DIMM

Graphics

Controller	Intel® Gen9 Graphics DX 12
HDMI	HDMI 1.4b Max resolution up to 4096x2160@24Hz
DisplayPort	DisplayPort 1.2a Max resolution up to 4096x2160@60Hz
VGA	N/A
LVDS	N/A
eDP	N/A
DVI	N/A
MultiDisplay	Triple Display

Expansion Slot

mini-PCIe/ mSATA	N/A
mini-PCIe	N/A
M.2	1 x Key E (2230)with PCIe x1 and USB 2.0 for Wireless
SIM Socket	N/A

Audio

Interface	Realtek ALC233, High Definition Audio. Line-out,Mic-in
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Ethernet

Controller/ Speed	iBOX-8365UE / iBOX-8665UE: LAN1: 1 x Intel® I219LM with 10/100/1000 Mbps, supports AMT/vPro LAN2: 1 x Realtek RTL8111H with 10/100/1000 Mbps iBOX-8145UE: LAN1: 1 x Intel® I219V with 10/100/1000 Mbps LAN2: 1 x Realtek RTL8111H with 10/100/1000 Mbps
Connector	2 x RJ-45

Storage

M.2	1 x M.2 (Key M, 2242/2260/2280) with PCIe x4 and SATA3 for SSD *M.2 Key M 2280(optional support, by bracket)
mSATA	N/A
SATA	1 x SATA3 (6Gb/s), SATA3_1 shared with M.2_Key M
eMMC	N/A

Front I/O

HDMI	N/A
DisplayPort	N/A
USB	1 x USB 3.2 (Gen1) + 2 x USB 2.0
Audio	1 (Mic-in or Line-out)
COM	1 x COM (RS-232)

Rear I/O

HDMI	1 x HDMI 1.4
DisplayPort	2 x DP 1.2a
VGA	N/A
DVI	N/A
Ethernet	2 x 1 Gigabit LAN
USB	2 x USB 3.2 (Gen2)
Audio	N/A
COM	N/A
PS2	N/A

Watchdog Timer

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

Power Requirements

Input PWR	1 x 12V/96W 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	0°C ~ 40°C
Storage Temp	-40° C ~ 85° C
Operating Humidity	10% ~ 90%
Storage Humidity	10% ~ 90%

Mechanical

Construction	Aluminum
Mounting	VESA mounting · Wall mounting
Dimensions (W x H x D)	171.8 x 150 x 71.5 mm
Weight	Net Weight: 2.2kg

Others

OS Support	Windows 10
TPM	TPM 2.0 onboard IC
Certifications	CE, FCC Class A
Packing List	1x 12V/96W Power Adapter 1 x Screw Package 1 x Product DVD 1 x VESA mounting bracket

Assured Systems

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