

iBOX-8365UE

Fanless Embedded BOX PC



IoT Solutions
Alliance

ASRock
— Industrial —



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 |
|-----------|---|

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 |

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 |

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 |

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