



## KEY FEATURES

- Intel® 12th Gen (Alder Lake-P) Core™ Processors
- 2 x 260-pin SO-DIMM DDR4 3200 MHz , up to 64GB (32GB per DIMM)
- 1 x USB4/Thunderbolt™4, 5 x USB3.2 Gen2, 2 x USB 2.0, 1 x M.2 Key M, 1 x M.2 Key E, 1 x COM, 1 x SATA3
- 2 x Intel 2.5 Gigabit LAN
- Supports Quad display, 1 x HDMI 2.0b, 3 x DP 1.4a (2 from Type-C)
- TPM 2.0 onboard IC
- Supports Intel® vPro (iBOX-1265UE/iBOX-1245UE)
- 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® 12th Gen (Alder Lake-P) Core™ Processors<br>iBOX-1265UE( i7-1265UE, 2P+8E)<br>iBOX-1245UE( i5-1245UE, 2P+8E)<br>iBOX-1215UE( i3-1215UE, 2P+4E) |
| Chipset | MCP                                                                                                                                                   |
| BIOS    | AMI SPI 256 Mbit                                                                                                                                      |

### Memory

|            |                            |
|------------|----------------------------|
| Technology | Dual Channel DDR4 3200 MHz |
| Capacity   | 64GB (32 GB per DIMM)      |
| Socket     | 2 x 260-pin SO-DIMM        |

### Graphics

|              |                                                                                  |
|--------------|----------------------------------------------------------------------------------|
| Controller   | Intel® Iris® Xe Graphics for i7/i5 CPU<br>Intel® UHD Graphics for i3/Celeron CPU |
| HDMI         | HDMI 2.0b<br>Max resolution up to 4096x2160@60Hz                                 |
| DisplayPort  | DisplayPort 1.4a, DP++<br>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 ALC233/ALC256, High Definition Audio. |
|-----------|-----------------------------------------------|

### Ethernet

|                   |                                                                                                                                                                                                                                                                               |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Controller/ Speed | iBOX-1265UE/ iBOX-1245UE:<br>LAN1: Intel® I225LM with 10/100/1000/2500 Mbps, supports vPro<br>LAN2: Intel® I225LM/I225V with 10/100/1000/2500 Mbps<br>iBOX-1215UE :<br>LAN1: Intel® I225LM with 10/100/1000/2500 Mbps<br>LAN2: Intel® I225LM/I225V with 10/100/1000/2500 Mbps |
| Connector         | 2 x RJ-45                                                                                                                                                                                                                                                                     |

### Storage

|      |                                                                                                    |
|------|----------------------------------------------------------------------------------------------------|
| M.2  | 1 x M.2 (Key M, 2242/2260/2280) with PCIe Gen4 x4 for SSD<br>*M.2 Key M 2280(Supported by bracket) |
| SATA | 1 x SATA3.0 (6.0 Gb/s)                                                                             |

### Front I/O

|       |                                                                                                                                                                                                                              |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| USB   | 2 x USB 3.2 Gen2 (Type A)<br>1 x USB4/Thunderbolt™ 4 (supports DP1.4a display output)<br>1 x USB 3.2 Gen2 (Type-C, supports DP1.4a display output)<br>2 x USB 2.0<br>*For Thunderbolt support, please refer to support list. |
| Audio | 1 (headphone & microphone jack)                                                                                                                                                                                              |

### Rear I/O

|             |                           |
|-------------|---------------------------|
| HDMI        | 1 x HDMI 2.0b             |
| DisplayPort | 1 x DP1.4a                |
| Ethernet    | 2 x 2.5 Gigabit LAN       |
| USB         | 2 x USB 3.2 Gen2 (Type-A) |
| DC Jack     | 1                         |
| COM         | 1 x COM(RS-232/422/485)   |

### Watchdog Timer

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

### Power Requirements

|           |                                                                                                                           |
|-----------|---------------------------------------------------------------------------------------------------------------------------|
| Input PWR | 12V~19V DC-In Jack                                                                                                        |
| Power On  | AT/ATX Supported<br>- AT : Directly PWR on as power input ready<br>- 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<br>(with extended temp. peripherals)<br>*Optional: Heatsink pack for PCIe Gen4x4 M.2 2280 NVMe SSD (P/N: 13G07P014000AI) |
| 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            | TPM 2.0 onboard IC                              |
| Certifications | CE, FCC                                         |
| Packing List   | 1 x 19V/90W Power Adapter<br>1 x Wall mount kit |