

## iBOX V2000 Series iBOX-V2000M/iBOX-V2000V Fanless Embedded BOX PC

**ASRock**  
— Industrial —



### KEY FEATURES

- AMD Ryzen™ Embedded V2718/V2516
- 2 x 260-pin non-ECC/ECC SO-DIMM up to 64GB DDR4 3200 MHz
- 4 x USB 3.2 Gen2, 4 x USB 2.0, 1 x M.2 Key M, 1 x M.2 Key E, 1 x COM, 1 x SATA3
- 1 x Realtek 1 Gigabit LAN, 1 x Realtek 2.5 Gigabit LAN
- Supports Quad display, 1 x HDMI 2.0a, 3 x DP 1.2a (2 from Type C)
- TPM 2.0 onboard IC
- 19V/90W Power Adapter
- 171.8 x 109.45 x 50.05mm, Fanless Barebone

### SPECIFICATIONS

#### Processor System

|         |                                                                                                      |
|---------|------------------------------------------------------------------------------------------------------|
| CPU     | iBOX-V2000M (V2718, 8C, Max Speed up to 4.15GHz)<br>iBOX-V2000V (V2516, 6C, Max Speed up to 3.95GHz) |
| Chipset | SOC                                                                                                  |
| BIOS    | AMI SPI 128 Mbit                                                                                     |

#### Memory

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

#### Graphics

|              |                                                               |
|--------------|---------------------------------------------------------------|
| Controller   | AMD Radeon™ Graphics                                          |
| HDMI         | HDMI 2.0a<br>Max resolution up to 4096x2160@60Hz              |
| DisplayPort  | DisplayPort 1.2a, 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 for Wireless |
|-----|----------------------------------------------------------|

#### Audio

|           |                                        |
|-----------|----------------------------------------|
| Interface | Realtek ALC233, High Definition Audio. |
|-----------|----------------------------------------|

#### Ethernet

|                   |                                                                                                           |
|-------------------|-----------------------------------------------------------------------------------------------------------|
| Controller/ Speed | LAN1: Realtek RTL8125BG with 10/100/1000/2500 Mbps<br>LAN2: Realtek R8111FPV (Dash) 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<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>2 x USB 3.2 Gen2 (Type-C, Supports DP1.4 display output)<br>2 x USB 2.0 |
| Audio | 1 (headphone & microphone jack)                                                                      |
| COM   | 1 x COM(RS-232)                                                                                      |

#### Rear I/O

|             |                                        |
|-------------|----------------------------------------|
| HDMI        | 1 x HDMI 2.0a                          |
| DisplayPort | 1 x DP1.2a                             |
| Ethernet    | 1 x 1 Gigabit LAN, 1 x 2.5 Gigabit LAN |
| USB         | 2 x USB 2.0                            |
| DC Jack     | 1                                      |

#### Watchdog Timer

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

#### Power Requirements

|           |                                                                                                                           |
|-----------|---------------------------------------------------------------------------------------------------------------------------|
| Input PWR | 1 x 19V/90W Power Adapter                                                                                                 |
| 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     | 0°C ~ 40°C   |
| Storage Temp       | -40°C ~ 85°C |
| Operating Humidity | 5% ~ 90%     |
| Storage Humidity   | 5% ~ 90%     |

#### Mechanical

|                        |                               |
|------------------------|-------------------------------|
| Construction           | Aluminum                      |
| Mounting               | VESA mounting · Wall mounting |
| Dimensions (W x D x H) | 171.8 x 109.45 x 50.05mm      |
| Weight                 | Net Weight:1.6Kg              |

#### Others

|                |                                                                                                                                    |
|----------------|------------------------------------------------------------------------------------------------------------------------------------|
| OS Support     | Windows 10                                                                                                                         |
| TPM            | TPM 2.0 onboard IC                                                                                                                 |
| Certifications | CE, FCC Class A                                                                                                                    |
| Packing List   | 1 x 19V/90W Power Adapter<br>1 x Screw Package<br>1 x Product DVD<br>1 x VESA mounting bracket<br>1 x Bracket for M.2 2280 support |

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