

### 4X4 BOX-R1000V/ 4X4 BOX-V1000M

Faned Embedded BOX PC



**ASRock**  
— Industrial —



#### KEY FEATURES

- AMD Ryzen™ Embedded R-Series (4X4 BOX-R1000V)
- AMD Ryzen™ Embedded V-Series (4X4 BOX-V1000M)
- 2 x 260-pin SO-DIMM up to 32GB DDR4 2400 MHz with ECC support (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 SATA3
- 2 x Realtek 1 Gigabit LAN
- Supports triple display, 1 x HDMI 2.0a, 2 x DP 1.2a
- 12V DC-In
- 110.0 x 118.5 x 67.3 mm, Faned Barebone

#### SPECIFICATIONS

| Processor System | 4x4 BOX-R1000V                                            | 4x4 BOX-V1000M                                          |
|------------------|-----------------------------------------------------------|---------------------------------------------------------|
| CPU              | AMD Ryzen™ Embedded R-Series (R1606G, DC, 2.6GHz, 12-25W) | AMD Ryzen™ Embedded V-Series (V1605B, QC, 2GHz, 12-25W) |
| Chipset          | SoC                                                       |                                                         |
| Socket           | N/A                                                       |                                                         |
| BIOS             | AMI SPI 64 Mbit                                           |                                                         |

#### Memory

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

#### Graphics

|              |                                                                                              |
|--------------|----------------------------------------------------------------------------------------------|
| Controller   | 4x4 BOX-R1000V<br>AMD Radeon™ Vega3 Graphics<br>4x4 BOX-V1000M<br>AMD Radeon™ Vega8 Graphics |
| HDMI         | HDMI 2.0a<br>Max resolution up to 4096x2160@60Hz                                             |
| DisplayPort  | DisplayPort 1.2a<br>Max resolution up to 3840x2160@60Hz                                      |
| MultiDisplay | Triple Display                                                                               |

#### Expansion Slot

|          |                                                                                     |
|----------|-------------------------------------------------------------------------------------|
| M.2/WLAN | 1 x 802.11ac (433 Mbps) + BT 4.2<br>(M.2 Key E, 2230 PCIe x1, USB 2.0 for Wireless) |
|----------|-------------------------------------------------------------------------------------|

#### Audio

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

#### Ethernet

|                   |                                            |
|-------------------|--------------------------------------------|
| Controller/ Speed | 2 x Realtek RTL8111G with 10/100/1000 Mbps |
| Connector         | 2 x RJ-45                                  |

#### Storage

|      |                                                                                          |
|------|------------------------------------------------------------------------------------------|
| M.2  | 1 x M.2 (Key M, 2242/2260) with PCIe x4 and SATA3 for SSD<br>*Not support M.2 Key M 2280 |
| SATA | 1 x SATA3 (6Gb/s), SATA3_1 shared with M.2_Key M                                         |

#### Front I/O

|       |                                  |
|-------|----------------------------------|
| USB   | 1 x USB 3.2 (Gen2) + 2 x USB 2.0 |
| Audio | 1 (Mic-in or Line-out)           |

#### Rear I/O

|             |                    |
|-------------|--------------------|
| HDMI        | 1 x HDMI 2.0a      |
| DisplayPort | 2 x DP1.2a         |
| Ethernet    | 2 x 1 Gigabit LAN  |
| USB         | 2 x USB 3.2 (Gen2) |
| 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 12V/96W 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 | 10% ~ 90%    |
| Storage Humidity   | 10% ~ 90%    |

#### Mechanical

|                        |                         |
|------------------------|-------------------------|
| Construction           | Plastic                 |
| Mounting               | VESA mounting           |
| Dimensions (W x H x D) | 110.0 x 118.5 x 67.3 mm |
| Weight                 | Net Weight: 1kg         |

#### Others

|                |                                                                                                                                           |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| OS Support     | Windows 10                                                                                                                                |
| Certifications | CE, FCC Class A                                                                                                                           |
| Packing List   | 1 x 12V/96W Power Adapter & Power cord<br>1 x Screw Package<br>1 x Product DVD<br>1 x VESA mounting bracket<br>1 x Heatsink for M.2 Key M |

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