

4X4 BOX-R1000V/ 4X4 BOX-V1000M

Fanned 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, Fanless 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 AMD Radeon™ Vega3 Graphics 4x4 BOX-V1000M AMD Radeon™ Vega8 Graphics
HDMI	HDMI 2.0a Max resolution up to 4096x2160@60Hz
DisplayPort	DisplayPort 1.2a Max resolution up to 3840x2160@60Hz
MultiDisplay	Triple Display

Expansion Slot

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

Interface	Realtek ALC233, High Definition Audio, Line-out, Mic-in
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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 *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 - 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	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 1 x Screw Package 1 x Product DVD 1 x VESA mounting bracket 1 x Heatsink for M.2 Key M

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