

## 4X4 BOX-R2000M

Fanned BOX



### KEY FEATURES

- AMD Ryzen™ Embedded R-Series R2314
- 2 x 260-pin ECC/non-ECC SO-DIMM DDR4 2666 MHz, up to 64GB (32GB 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 (WiFi-6), 1 x SATA3
- 1 x Realtek 2.5 Gigabit LAN, 1 x Realtek 1 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
- 117.5 x 110.0 x 47.85mm (4.63" x 4.33" x 1.88"), Fanned Barebone

### SPECIFICATIONS

#### Processor System

CPU	AMD Ryzen™ Embedded R-Series
Chipset	4X4 BOX-R2000M (R2314, QC, Max Speed up to 3.5GHz)
BIOS	SoC AMI SPI 64 Mbit

#### Memory

Technology	Dual Channel ECC/non-ECC DDR4 2666 MHz
Capacity	64GB (32 GB per DIMM)
Socket	2 x 260-pin SO-DIMM

#### Graphics

Controller	AMD Radeon™ Graphics
HDMI	HDMI 2.0a Max resolution up to 4096x2160@60Hz
DisplayPort	DisplayPort 1.2a, DP++ Max resolution up to 4096x2160@60Hz
MultiDisplay	Quad Display (Included 2 outputs from Type-C)

#### Expansion Slot

M.2/WLAN	1 x Wi-Fi 6E 802.11ax + BT 5.2
----------	--------------------------------

#### Audio

Interface	Realtek ALC256, High Definition Audio.
-----------	--

#### Ethernet

Controller/ Speed	LAN1: Realtek RTL8125BG with 10/100/1000/2500 Mbps LAN2: 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 Gen3 x4 and SATA3 for SSD *M.2 Key M 2280(Supported by bracket)
SATA	1 x SATA3.0 (6.0 Gb/s)

#### Front I/O

USB	1 x USB 3.2 Gen2 (Type-A) 2 x USB 3.2 Gen2 (Type-C, Supports DP1.2a display output)
Audio	1 (headphone & microphone jack)

#### 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	12V~24V DC-In Jack
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	5% ~ 90%
Storage Humidity	5% ~ 90%

#### Mechanical

Mounting	VESA mount
Dimensions (L x W x H)	117.5 x 110.0 x 47.85mm (4.63" x 4.33" x 1.88")
Weight	Net Weight: 1kg

#### Others

OS Support	Windows 10/11
TPM	TPM 2.0 onboard IC
Certifications	CE, FCC
Packing List	1 x 19V/90W Power Adapter 1 x VESA mount bracket

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508  
Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050  
Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28  
Business Registration Number: 07699660