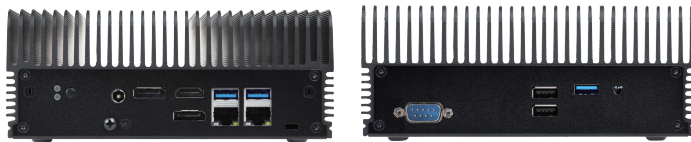


iBOX-R1000/ iBOX-V1000M

Fanless Embedded BOX PC



**ASRock**  
— Industrial —



**Expansion Slot**

mini-PCIe/ mSATA	N/A
mini-PCIe	N/A
M.2	1 x Key E(2230) with PCIe1 and USB2.0 for Wireless
SIM Socket	N/A

**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, 2242/2260/2280) with PCIe4 and SATA3 for SSD *M.2 Key M 2280(optional support, by bracket)
mSATA	N/A
SATA	1 x SATA3 (6Gb/s), SATA3_1 shared with M.2_Key M
eMMC	N/A

**Front I/O**

HDMI	N/A
DisplayPort	N/A
USB	1 x USB 3.2 (Gen2) + 2x USB 2.0
Audio	1 (Mic-in or Line-out)
COM	1 x COM (RS-232)

**Rear I/O**

HDMI	1 x HDMI 2.0
DisplayPort	2 x DP1.2a
VGA	N/A
DVI	N/A
Ethernet	2 x 1 Gigabit Realtek LAN
USB	2 x USB 3.2 (Gen2)
Audio	N/A
COM	N/A
PS2	N/A

**KEY FEATURES**

- AMD Ryzen™ Embedded R-Series (iBOX-R1000M/iBOX-R1000V)
- AMD Ryzen™ Embedded V-Series (iBOX-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 COM, 1 x SATA3
- 2 x Realtek 1 Gigabit LAN
- Supports triple display, 1 x HDMI 2.0, 2 x DP 1.2a
- TPM Header
- 12V DC-In
- 171.8 x 150 x 71.5 mm, Fanless Barebone

**SPECIFICATIONS**

Processor System	iBOX-R1000	iBOX-V1000M
CPU	AMD Ryzen™ Embedded R-Series -iBOX-R1000M (R1606G, DC, up to 3.5GHz) -iBOX-R1000V (R1505G, DC, up to 3.3GHz)	AMD Ryzen™ Embedded V-Series (V1605B, QC, up to 3.6GHz)
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	AMD Radeon™ Vega 8 Graphics (iBOX-R1000)AMD Radeon™ Vega 3 Graphics (iBOX-V1000)AMD Radeon™ Vega 8 Graphics
HDMI	HDMI 2.0 Max resolution up to 4096x2160@60Hz
DisplayPort	DisplayPort 1.2a Max resolution up to 4096x2160@60Hz
VGA	N/A
LVDS	N/A
eDP	N/A
DVI	N/A
MultiDisplay	Triple Display

**Watchdog Timer**

Output Interval	From Super I/O to drag RESETCON# 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	Aluminum
Mounting	VESA mounting - Wall mounting
Dimensions (W x H x D)	171.8 x 150 x 71.5 mm
Weight	Net Weight: 2.2kg

**Others**

OS Support	Windows 10
TPM	N/A
Certifications	CE, FCC Class A
Packing List	1 x 12V/96W Power Adapter 1 x Screw Package 1 x Product DVD 1 x VESA mounting bracket

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than original product specification is not guaranteed.

## 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