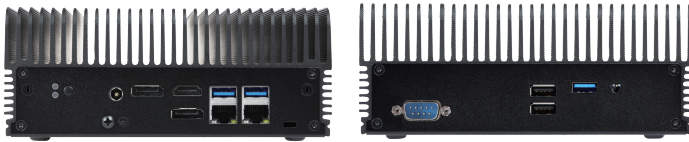


iBOX-R1000/ iBOX-V1000M

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
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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, 2242/2260/2280) 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
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Power Requirements

Input PWR Power On	1 x 12V/96W Power Adapter AT/ATX Supported - AT : Directly PWR on as power input ready - ATX : Press button to PWR on after power input ready
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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.

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