

iBOX-R1000/ iBOX-V1000M

Fanless Embedded BOX PC



ASRock
— Industrial —



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

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

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	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

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