

# iBOX-1000D R2

Fanless Embedded BOX PC



IoT Solutions  
Alliance

**ASRock**  
— Industrial —



## KEY FEATURES

- Intel® Celeron® Processor J1900
- 2 x 204-pin SO-DIMM up to 16GB DDR3L 1333 MHz (8GB per DIMM)
- 1 x USB 3.1 Gen 1, 5 x USB 2.0, 2 x M.2 Key M, 4 x COM, 1 x SATA2,
- 8 x GPI, 8 x GPO
- 2 x Intel 1 Gigabit LAN, 2 x Realtek 1 Gigabit LAN
- Supports dual display, 1 x HDMI 1.4a, 1 x VGA
- 1 x 12V/60W AC-DC power brick adapter
- 200 x 244 x 55.1mm, Fanless Barebone

## SPECIFICATIONS

### Processor System

CPU	Intel® Celeron® Processor J1900, QC, up to 2.42 GHz
Chipset	SoC
Socket	FCBGA1170
BIOS	AMI SPI 64 Mbit

### Memory

Technology	Dual Channel DDR3L 1333 MHz
Capacity	16 GB (8GB per DIMM)
Socket	2 x 204-pin SO-DIMM

### Graphics

Controller	Intel® Gen7 Graphics DX 11
HDMI	HDMI 1.4a, max resolution up to 1920 x 1200@24Hz
DisplayPort	N/A
VGA	Max resolution up to 1920x1200@60Hz
LVDS	N/A
eDP	N/A
DVI	N/A
MultiDisplay	Dual Display

### Expansion Slot

mini-PCIe/ mSATA	N/A
mini-PCIe	1 x Full/Half mini-PCIe with PCIe x1 and shared USB 2.0
M.2	1 x M.2 (Key M, 2260) with PCIe x1 optional for VPU
SIM Socket	N/A

### Ethernet

Controller/ Speed	LAN1: 1 x Realtek RT81119J with 10/100/1000 Mbps LAN2: 1 x Realtek RT81119J with 10/100/1000 Mbps LAN3: 1 x Intel® I210IT with 10/100/1000 Mbps LAN4: 1 x Intel® I210IT with 10/100/1000 Mbps (Optional: LAN4 supports POE function by ASRI PSE module)
Connector	4 x RJ-45

### Storage

M.2	1 x M.2 (Key M, 2242/2260/2280) with SATA2 for SSD
mSATA	N/A
SATA	1 x SATA2 (3.0Gb/s)
eMMC	N/A

### Front I/O

HDMI	N/A
VGA	1
USB	N/A
COM	2 x COM (RS-232/422/485), 2 x COM (RS-232)
GPIO(Phoenix)	8 x GPI, 8 x GPO
Power input (Phoenix)	3pin
Reset (Phoenix)	2pin
Audio	N/A

### Rear I/O

HDMI	1 x HDMI 1.4a
DisplayPort	N/A
VGA	N/A
DVI	N/A
Ethernet	2 x Intel 1 Gigabit LAN, 2 x Realtek 1 Gigabit LAN
USB	1 x USB 3.1 (Gen1), 5 x USB 2.0
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/60W AC-DC power brick 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 ~ 50°C
Storage Temp	-40° C ~ 85° C
Operating Humidity	10% ~ 90%
Storage Humidity	10% ~ 90%

### Mechanical

Construction	Aluminum cover + Metal chassis
Mounting	VESA mounting, Wall mounting
Dimensions (W x H x D)	200 x 244 x 55.1mm
Weight	Net Weight:1.7kg

### Others

OS Support	Windows 7
TPM	TPM Header
Certifications	CE, FCC Class A
Packing List	1 x 12V/60W 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