

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-233/422/485), 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

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