

iBOX-310M

Fanless Embedded BOX PC



IoT Solutions
Alliance



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device
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ASRock
— Industrial —



Expansion Slot

mini-PCIe/ mSATA	1 x Full size (Supports PCIe x1 and USB 2.0, shared with m-SATA)
mini-PCIe	1 x Full/ half size(Supports PCIe x1 and USB 2.0)
M.2	N/A
SIM Socket	N/A

Audio

Interface	N/A
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Ethernet

Controller/ Speed	LAN1: 1 x Realtek RTL8111G with 10/100/1000 Mbps LAN2: 1 x Intel® I218LM with 10/100/1000 Mbps, supports AMT/vPro
Connector	2 x RJ-45

Storage

M.2	N/A
mSATA	1 x Half size with USB 2.0 colay with mini-PCIe
SATA	1 x SATA3 (6Gb/s)
eMMC	N/A

KEY FEATURES

- Intel® 4th Gen (Haswell) Core™ MCP Processors
- 2 x 204-pin SO-DIMM up to 8GB DDR3L 1600MHz (4GB per DIMM)
- 4 x USB 3.1 Gen1, 2 x USB 2.0, 1 x mini-PCIe/mSATA, 1 x mini-PCIe, 4 x COM, 1 x SATA3
- 2 x Intel 1 Gigabit LAN
- Supports dual display, 2 x HDMI 1.4a
- 1 x 19V/65W AC-DC power brick adapter
- 170 x 200 x 70mm, Fanless Barebone

SPECIFICATIONS

Processor System

CPU	Intel® 4th Gen (Haswell) Core™ MCP Processors i5-4300U, QC, up to 2.90 GHz
Chipset	SoC
Socket	FCBGA1168
BIOS	AMI SPI 64 Mbit

Memory

Technology	Dual Channel DDR3L 1600 MHz
Capacity	8 GB (4 GB per DIMM)
Socket	2 x 204-pin SO-DIMM

Graphics

Controller	Intel® HD Graphics 4400
HDMI	HDMI 1.4a Max resolution up to 4096x2304@24Hz
DisplayPort	N/A
VGA	N/A
LVDS	N/A
eDP	N/A
DVI	N/A
MultiDisplay	Dual Display

Front I/O

HDMI	N/A
DisplayPort	N/A
USB	2 x USB 2.0
COM	2 x COM (RS-232/422/485), 2 x COM (RS-232)
Audio	N/A

Rear I/O

HDMI	2 x HDMI 1.4a
DisplayPort	N/A
VGA	N/A
DVI	N/A
Ethernet	2 x 1 Gigabit LAN
USB	4 x USB 3.1 (Gen1)
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 19V/65W 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 housing
Mounting	VESA mounting bracket
Dimensions (W x H x D)	170 x 200 x 70mm
Weight	Net Weight:2.2 kg

Others

OS Support	Windows 7, Windows 10
TPM	N/A
Certifications	CE, FCC Class A
Packing List	1 x 19V/65W Power Adapter 1 x Screw Package 1 x Product DVD

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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