iBOX-230

Fanless Embedded BOX PC

intel IoT Solutions Alliance

ASRock Industrial

KEY FEATURES

- Intel® Apollo Lake SoC Processor
- 2 x 204-pin SO-DIMM up to 16GB DDR3L 1866 MHz (8GB per DIMM)
- 2 x USB 3.1 Gen1, 2 x USB 2.0, 1 x mini-PCIe/mSATA, 1 x mini-PCIe, 2 x COM, 1 x SATA3
- 2 x Intel 1 Gigabit LAN
- Supports dual display, 1 x HDMI 1.4b, 1 x VGA
- 1 x 19V/65W AC-DC power brick adapter
- 200 x 134.5 x 39mm, Fanless Barebone

SPECIFICATIONS

Processor System

CPU	Intel®Apollo Lake SoC Processor -iBOX-230D (N4200, QC, up to 2.50 GHz) -iBOX-230L (N3350, DC, up to 2.40 GHz)
Chipset	SoC
Socket	FCBGA1296
BIOS	AMI SPI 128 Mbit

Memory

Technology	Dual Channel DDR3L 1866 MHz
Capacity	16 GB (8 GB per DIMM)
Socket	2 x 204-pin SO-DIMM

Graphics

Controller	Intel® Gen9 Graphics DX 12
HDMI	HDMI 1.4b Max resolution up to 4096 x 2160@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	1 x full size (Supports PCIe x1 shared with m-SATA and USB device)
mini-PCIe	1 x Full/ half size(Supports PCIe x1 and USB device)
M.2	N/A
SIM Socket	N/A

Audio

Interface	Realtek ALC887, High Definition Audio. Line-out,Mic-in

Ethernet

Controller/ Speed	2 x Intel® I210 with 10/100/1000 Mbps
Connector	2 x RJ-45

Storage

M.2	N/A
mSATA	1 x Full size (Supports PCIe x1 and USB 2.0, shared with m-SATA)
SATA	1 x SATA3 (6Gb/s)
eMMC	N/A

Front I/O

HDMI	N/A
DisplayPort	N/A
USB	2 x USB 2.0
COM	1 x COM (RS-233/422/485), 1 x COM (RS-232)
Audio	N/A

Rear I/O

HDMI	1 x HDMI 1.4b
DisplayPort	N/A
VGA	1
DVI	N/A
Ethernet	2 x Intel 1 Gigabit LAN
USB	2 x USB 3.1 (Gen1)
Audio	2 (Mic-in, Line-out)
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
Dimensions (W x H x D)	200 x 134.5 x 39mm
Weight	Net Weight:1.8kg

Others

OS Support	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 1 x VESA mounting bracket

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