

iBOX-420-DL

Fanless Embedded BOX PC



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)
- 3 x USB 3.1 Gen1 ,1 x M.2 Key M,1 x M.2 Key E, 1 x SATA3
- 2 x Realtek 1 Gigabit LAN
- Supports triple display, 1 x HDMI1.4b , 2 x DP1.2a
- TPM 2.0 onboard IC
- 12V DC-In

SPECIFICATIONS

Processor System

CPU	Intel® Apollo Lake Soc Processor N4200, QC, up to 2.50 GHz
Chipset	SoC
Socket	N/A
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	DisplayPort 1.2a, DP++ Max resolution up to 4096x2160@60Hz
VGA	N/A
LVDS	N/A
eDP	N/A
DVI	N/A
MultiDisplay	Triple Display

Expansion Slot

M.2	1 x Key E(2230)with PCIe1 and USB2.0 for wireless
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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 Key M(2242/2260) with PCIe1 and SATA3 for SSD
mSATA	N/A
SATA	1 x SATA3 (6Gb/s)
eMMC	N/A

Front I/O

USB	1 x USB 3.1 (Gen1)
Audio	1 (Mic-in or Line-out)

Rear I/O

HDMI	1 x HDMI1.4b
DisplayPort	2 x DP1.2a
Ethernet	2 x 1 Gigabit LAN
USB	2 x USB 3.1 (Gen1)

Watchdog Timer

Output Interval	From Super I/O to drag RESETCON# 256 Segments, 0, 1, 2, ...255sec
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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 housing
Mounting	VESA mounting
Dimensions (W x H x D)	135 x 110 x 44.5mm
Weight	Net Weight: 0.7kg

Others

OS Support	Windows 10
TPM	TPM 2.0 onboard IC
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

Assured Systems

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