

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
-----	---

Audio

Interface	Realtek ALC233, High Definition Audio, Line-out, Mic-in
-----------	---

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
-----------------	--

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

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

Sales: +1 347 719 4508
Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

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