

iBOX-350

Fanless Embedded BOX PC



IoT Solutions
Alliance

ASRock
— Industrial —



KEY FEATURES

- Intel®8th Gen (Whiskey lake-U) Core™ MCP Processors
- 2 x 260-pin SO-DIMM up to 32GB DDR4 2400 MHz (16GB per DIMM)
- 4 x USB 3.2 Gen2, 2 x USB 3.2 Gen1, 2 x M.2 Key M, 1 x M.2 Key E, 4 x COM, 1 x SATA3
- 2 x Intel 1 Gigabit LAN
- Supports dual display, 2 x DP 1.2a
- TPM 2.0 onboard IC (SBC-350P, SBC-350M)
- 1 x 12V/96W AC-DC power brick adapter
- 208 x 178.6 x 62.9mm, Fanless Barebone

SPECIFICATIONS

Processor System

CPU	Intel® 8th Gen (Whiskey lake-U) Core™ MCP Processors -iBOX-350P (i7-8665UE, QC, up to 4.40 GHz) -iBOX-350M (i5-8365UE, QC, up to 4.10 GHz) -iBOX-350V (i3-8145UE, DC, up to 3.90 GHz)
Chipset	SoC
Socket	BGA1528
BIOS	AMI SPI 128 Mbit

Memory

Technology	Dual Channel DDR4 2400 MHz
Capacity	32 GB (16 GB per DIMM)
Socket	2 x 260-pin SO-DIMM

Graphics

Controller	Intel® UHD Graphics 620
HDMI	N/A
DisplayPort	DisplayPort 1.2a, DP++ Max resolution up to 4096 x 2304@60Hz
VGA	N/A
LVDS	Dual channel 48 bit up to 1920 x 1200@60Hz
eDP	N/A
DVI	N/A
MultiDisplay	Dual Display

Expansion Slot

Mini-PCIe/ mSATA	N/A
Mini-PCIe	N/A
M.2	1 x Key E (2230)with PCIe x1, CNVI and USB 2.0 for Wireless
SIM Socket	N/A

Audio

Interface	N/A
-----------	-----

Ethernet

Controller/ Speed	iBOX-350P/M LAN1: 1 x Intel® I210 with 10/100/1000 Mbps LAN2:1 x Intel® I219LM with 10/100/1000 Mbps, supports AMT/vPro iBOX-350V LAN1: 1 x Intel® I210 with 10/100/1000 Mbps LAN2:1 x Intel® I219V with 10/100/1000 Mbps
Connector	2 x RJ-45

Storage

M.2	1 x Key M (2242/2280)with PCIe4 and SATA3 for SSD 1 x Key M (2242)with SATA3 for SSD
mSATA	N/A
SATA	1 x SATA3 (6Gb/s)
eMMC	N/A

Front I/O

HDMI	N/A
DisplayPort	1 x DP 1.2a++
USB	2 x USB 3.2 (Gen1), 2 x USB 2.0
Audio	N/A
COM	1 x COM (RS232/422/485), 3 x COM (RS232)
GPIO(Phoenix)	1 (4 x GPI, 4 x GPO)

Rear I/O

HDMI	N/A
DisplayPort	1 x DP 1.2a, DP++
VGA	N/A
DVI	N/A
Ethernet	2 x Intel 1 Gigabit LAN
USB	4 x USB 3.2 (Gen2)
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/96W 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)	208 x 178.6 x 62.9mm
Weight	Net Weight:2.4kg

Others

OS Support	Windows 10
TPM	TPM 2.0 onboard IC (iBOX-350P · iBOX-350M)
Certifications	CE, FCC Class A
Packing List	1 x 12V/96W Power Adapter 1 x Screw Package 1 x Product DVD 1 x VESA mounting bracket

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