

iBOX 1100 Series
iBOX-1185G7E/ iBOX-1145G7E/ iBOX-1115G4E/ iBOX-6305E
Fanless Embedded BOX PC

ASRock
— Industrial —



KEY FEATURES

- Intel® 11th Gen (Tiger Lake-UP3) Core™ Processors
- 2 x 260-pin SO-DIMM up to 64GB DDR4 3200 MHz
- 6 x USB 3.2 Gen2, 2 x USB 2.0, 1 x M.2 Key M, 1 x M.2 Key E, 1 x COM, 1 x SATA3
- 1 x Intel 1 Gigabit LAN, 1 x Intel 2.5 Gigabit LAN
- Supports Quad display, 1 x HDMI 2.0a, 3 x DP 1.4 (2 from Type C)
- TPM 2.0 onboard IC
- Supports Intel® vPro, AMT (iBOX-1185G7E/iBOX-1145G7E)
- 19V/90W Power Adapter
- 171.8 x 50.05 x 109.45 mm, Fanless Embedded BOX PC

SPECIFICATIONS

Processor System

CPU	iBOX-1185G7E (I7-1185G7E, QC, Max Speed up to 4.4GHz) iBOX-1145G7E (I5-1145G7E, QC, Max Speed up to 4.1GHz) iBOX-1115G4E (I3-1115G4E, DC, Max Speed up to 3.9GHz) iBOX-6305E (Celeron 6305E, DC, 1.8GHz)
Chipset	MCP
BIOS	AMI SPI 256 Mbit

Memory

Technology	Dual Channel DDR4 3200 MHz
Capacity	64GB (32 GB per DIMM)
Socket	2 x 260-pin SO-DIMM

Graphics

Controller	Intel® Iris® Xe Graphics for i7/i5 CPU Intel® UHD Graphics for i3/Celeron CPU
HDMI	HDMI 2.0a Max resolution up to 4096x2160@60Hz
DisplayPort	DisplayPort 1.4, DP++ Max resolution up to 4096x2160@60Hz
MultiDisplay	Quad-Display (Included 2 outputs from Type-C)

Expansion Slot

M.2	1 x M.2 (Key E, 2230) with PCIe x1, USB 2.0 and CNVi for Wireless
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Audio

Interface	Realtek ALC233, High Definition Audio.
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Ethernet

Controller/ Speed	iBOX-1185G7E/iBOX-1145G7E: LAN1: Intel® I219LM with 10/100/1000 Mbps, supports AMT/vPro LAN2: Intel® I225LM with 10/100/1000/2500 Mbps iBOX-1115G4E/iBOX-6305E: LAN1: Intel® I219V with 10/100/1000 Mbps LAN2: Intel® I225LM with 10/100/1000/2500 Mbps
Connector	2 x RJ-45

Storage

M.2	1 x M.2 (Key M, 2242/2260/2280) with SATA3 and PCIe Gen4 x4 for SSD *M.2 Key M 2280(Supported by bracket)
SATA	1 x SATA3.0 (6.0 Gb/s)

Front I/O

USB	2 x USB 3.2 Gen2 (Type A), 2 x USB 2.0 2 x USB 3.2 Gen2 (Type-C, Supports DP1.4 display output) * USB4™ Compliance Test is pending for certification 2 x USB 2.0
Audio	1 (headphone & microphone jack)

Rear I/O

HDMI	1 x HDMI 2.0a
DisplayPort	1 x DP1.4
Ethernet	1 x 1 Gigabit LAN, 1 x 2.5 Gigabit LAN
USB	2 x USB 3.2 Gen2 (Type-A)
DC Jack	1
COM	1 x COM(RS-232)

Watchdog Timer

Output	From Super I/O to drag RESETCON#
Interval	256 Segments, 0, 1, 2, ...255sec

Power Requirements

Input PWR	1 x 19V/90W Power 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 ~ 40°C
Storage Temp	-40°C ~ 85°C
Operating Humidity	5% ~ 90%
Storage Humidity	5% ~ 90%

Mechanical

Construction	Aluminum
Mounting	VESA mounting · Wall mounting
Dimensions (W x H x D)	171.8 x 50.05 x 109.45 mm
Weight	Net Weight:1.6Kg

Others

OS Support	Windows 10
Certifications	CE, FCC Class A
Packing List	1 x 19V/90W Power Adapter 1 x Screw Package 1 x VESA mounting bracket 1 x Bracket for M.2 2280 support

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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