



ABOX-4120 – Embedded AI Box with Intel® 12th Gen Processor

The ABOX-4120 is an AIoT fanless system was designed to support your need of Artificial Intelligence and the Internet of Things. It's powerful 12th Gen Intel processor with Intel® Iris Xe Graphics and triple display support will be up for your industrial AIoT tasks.

SPECIFICATIONS

CPU	Intel® 12th Gen Processor
Memory Type	262-pin DDR5 4800MHz SO-DIMM (Non-ECC)
Memory Slots	2
Maximum Memory Supported	64GB
Integrated Graphics	Intel® Iris Xe Graphics
Watchdog Timer	Programmable from 1 to 255 Seconds
Video	1 x mini DP up to 4K @ 60Hz, 1 x HDMI up to 4K @ 24Hz, 1 x USB 3.2 Gen.1 (Type C) up to 4K @ 60Hz
LAN Ports	2 x Intel® I226-LM 10/100/1000/2500 Mbps
TPM	2.0 (Optional)
Extended Interface	1 x M.2 2242/3042 B Key (PCIe x1 Gen.3/SATA 3.0/USB 3.0) w/ Nano SIM socket, 1 x M.2 2230 E Key (PCIe x1 Gen.3/USB 2.0), 1 x M.2 2242 M Key (PCIe x2 Gen.3), 1 x M.2 2280 M Key (PCIe x4 Gen.4)
Front I/O	1 x Power Button, 4 x USB 2.0, 2 x COM (COM1: RS232/RS422/RS485/PWR, COM2: RS232/RS422/RS485)
Rear I/O	2 x LAN, 1 x mini DP, 1 x HDMI, 1 x USB 3.2 Gen.1 (Type C) for video out, 2 x USB 2.0 (Type A), 3 x USB 3.2 Gen.2 (Type A), 1 x 8-bit GPIO, 1 x Audio line-out, 2 x antenna ports

Audio	Realtek ALC888 HD Audio
Power Requirement	DC input 9 ~ 36V
Dimensions	8.86" x 5.47" x 1.73" (225mm x 139mm x 44mm)
Operating Temperature	-20°C~70°C (-4°F~158°F)
Storage Temperature	-40°C~85°C (-40°F~185°F)
Relative Humidity	5% to 95% @ 40°C, non-condensing
OS Software Supported	Windows 10 64-bit, Linux
Global P/N / SKU	1708596

Ordering Options

ABOX-4120-A00 (SKU# 1708596A): Fanless Embedded AI Box PC with Intel® i7-1265UE, 128GB of storage and 16GB of RAM ABOX-4120-A01 (SKU# 1708596B): Fanless Embedded AI Box PC with Intel® i5-1245UE, 128GB of storage and 16GB of RAM ABOX-4120-A02 (SKU# 1708596C): Fanless Embedded AI Box PC with Intel® i3-1215UE, 128GB of storage and 16GB of RAM ABOX-4120-A03 (SKU# 1708596D): Fanless Embedded AI Box PC with Intel® Celeron® 7305E, 128GB of storage and 16GB of RAM *The ABOX-4120 defaults to 128GB of storage with 16GB of RAM. If a different configuration is needed, please contact sales for more options.