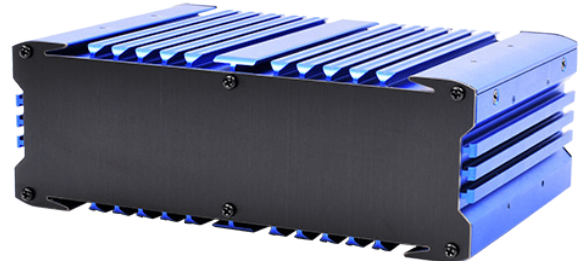


AIBOX-105-2L6C



- Support Intel® Celeron® J6412 low-power processor
- Support easily Swappable HDD Design, max 1* 2.5 inch SSD
- Scientific and reasonable interface layout
- Fully enclosed aluminum alloy anti-interference structure with fanless cooling system
- Rich I/O expansion slot to make requirement come true



The actual appearance is subject to the final configuration.

Specifications

Model	AIBOX-105-2L2C	
Supported OS	Win 10, Win11, Linux (Ubuntu, Debian, Kali, CentOS, etc.)	
CPU	Specification	Intel® Celeron® J6412, Quad-core, 4 Threads, base Fre. 2.00 GHz, Burst Fre. 2.60GHz, TDP 10W
	Graphics	Intel® UHD Graphics for 10th Gen Intel® Processors, 16EUs.
RAM	SO-DIMM	1 * Non-ECC SO-DIMM Slot, support DDR4-2666/2933/3200MHz, Up to 32GB
Storage Device & Extended Capabilities	SATA	1 * SATA3.0 7P Connector with 1 * SATA Power Header [1]
	Mini PCIe	1 * Mini PCIe Slot (USB2.0+PCIe/mSATA,support 4G, default mSATA, connected to SIM wafer) [2]
	M.2 M-key	1* M.2 (NGFF) 2280 M-key slot, support PCIe/x2 Gen.3 NVMe/ SATA3.0 SSD [1] [3]
	M.2 B-key	1 * M.2 Key-B Slot (PCIe/USB3.0+ USB2.0,3052, default USB3.0, Support 4G/5G, connected to SIM wafer); [2] [4]
I/O Interface	COM	3 * RS232 (COM1/2/3, Header, Full Wires) 2 * RS232/TTL (COM4/5, Header, 2 Wires) 1 * RS232/RS485/TTL (COM6, Header, 2 Wires) [5]
	Ethernet	2 * RJ45 connector, Intel I225-V GBE LAN Chip (10/100/1000 Mbps)
	USB	3 * USB3.0, 3 * USB2.0 (TYPE-A, Rear IO); 4 * USB2.0 (Header, Internal) [2] [4]
	Video	1 * HDMI(TYPE-A): max resolution up to 4096*2304@60Hz; 1 * HDMI (Header): max resolution up to 4096*2304@60Hz; 1 * DP (TYPE-A): max resolution up to 4096*2304@60Hz;
	Audio	Realtek Audio HDA Codec; 1 * Line-Out + MIC 2in1 ΦΦ3.5mm Jack; 1 * Amplifier Header, 3W into an 4Ω Loads
	Power Supply	12V DC; 1* DC Threaded Jack (5.5* 2.5mm); Optional support 24V DC with Phoenix Terminal connector.
	Others	1* 8-bit GPIO header (4-Inputs/4-Outputs, 0-5V Input Range, on motherboard); 1 * SIM Card Header connected to M.2 B-key slot
	Environment	Operating Temperature
Storage Temperature		-20 ~ 85 °C (-40~185 °F)
Relative Humidity		40 °C @ 95%, Non-Condensing
Physical Characteristics	Dimensions	290.35* 79.6* 234 mm (W* H* D)
	Net Weight	2 KG
Regulation	EMC	CE/FCC Class B, CCC
	Safety	CE-LVD, RoHS, CCC

[1]: M.2 key-M slot supports PCIe x2 NVMe /SATA SSD, sel by res. Colay SATA signal with SATA3.0 7P connector.

[2]: Mini PCI-E Slot supports SATA/PCIe+USB2.0, sel by res. Colay SATA signal with M.2 key-B slot. Colay USB2.0 signal with F_USB3 Header.

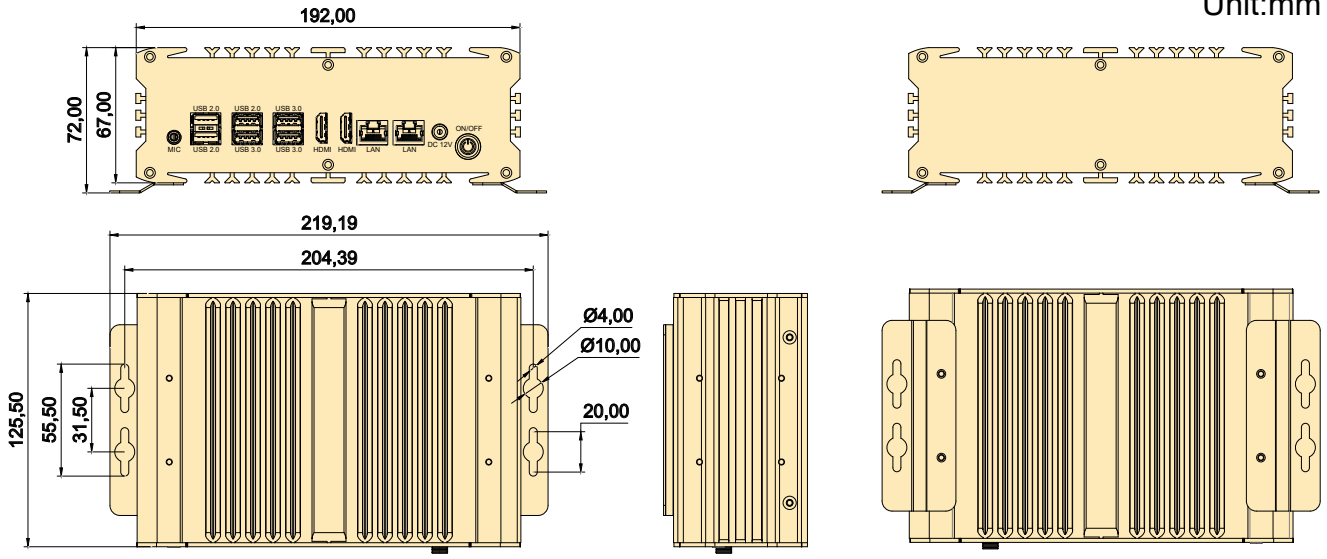
[3]: PCIe x2 Gen3/Gen4 determined by the CPU.

[4]: M.2 key-B slot supports PCIe/USB3.0/mSATA+ USB2.0, sel by res. Colay SATA signal with Mini PCI-E slot. Colay USB2.0 signal with F_USB2 Header. Colay PCIe/USB3.0 signal with R_USB2_UP Connector.

[5]: If J_COM6 is used, COM6 is RS232. If J_COM6_1 is used, COM6 is RS485. J_COM6 and J_COM6_1 can't be used at the same time. It also supports TTL, but the circuit needs to be changed. It also supports 422, but the circuit needs to be changed

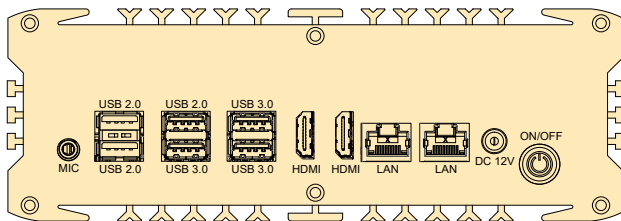
Dimension

Unit:mm

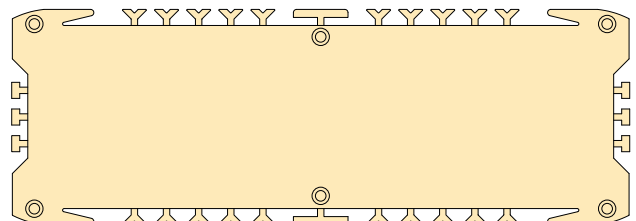


The actual appearance and dimensions are subject to the final configuration

Front Panel External I/O Mechanical Layout/Drawing



Rear Panel External I/O Mechanical Layout/Drawing



Ordering Information

SO-DIMM Socket	SATA3.0 Connector	Mini PCIe Slot	M.2 2280 M-key slot	M.2 3052 B-key slot	COM Header	GbE LAN	USB3.0	USB2.0	USB2.0 Header
1	1	1	1	1	6	2	3	3	4
HDMI	HDMI Header	Display Port	MicIn+LineOut 2 In 1 Jack	SIM Card Slot Wafer	8-bit GPIO Header	Power Supply			
1	1	1	1	1	1	12V DC			

Processors Info.

CPU	Code Name	Total Cores	Total Threads	Burst Frequency	Base Frequency	Cache	TDP	Memory Types	Integrated Graphics
Intel® Celeron® J6412	Elkhart Lake	4	4	2.60 GHz	2.00 GHz	1.5 MB L2 Cache	10 W	DDR4	Intel® UHD Graphics for 10th Gen Intel® CPU

All products and company name listed are trademarks or trade names of their respective companies.

Packing List

Default Items	Qty
AIBOX-105-2L2C Unit	1
AC-to-DC Adapter	1
Power cable 3-pin 150cm	1

Options for Default items

Optional Items	Qty
Power cable 3-pin 150cm, USA type	-
Power cable 3-pin 150cm, EU type	-
Power cable 3-pin 150cm, UK type	-

Optional accessories or internal modules for unit

Optional Items	Max Qty	Description
4G Module	1	Connected by M.2 interface
5G Module	1	Connected by M.2 interface
WiFi Module without AP mode	1	Connected by M.2 interface
WiFi Module with AP mode	1	Connected by Mini PCIe interface
Dual channel CAN-Bus Module	1	Connected by M.2 interface
Dual GbE PoE LAN Module	1	Connected by M.2 Interface

!! Note: As this product has expansion slots, please consult sales for the specific maximum number of expandable interfaces.