

# IBOX-108-2L4C-3P



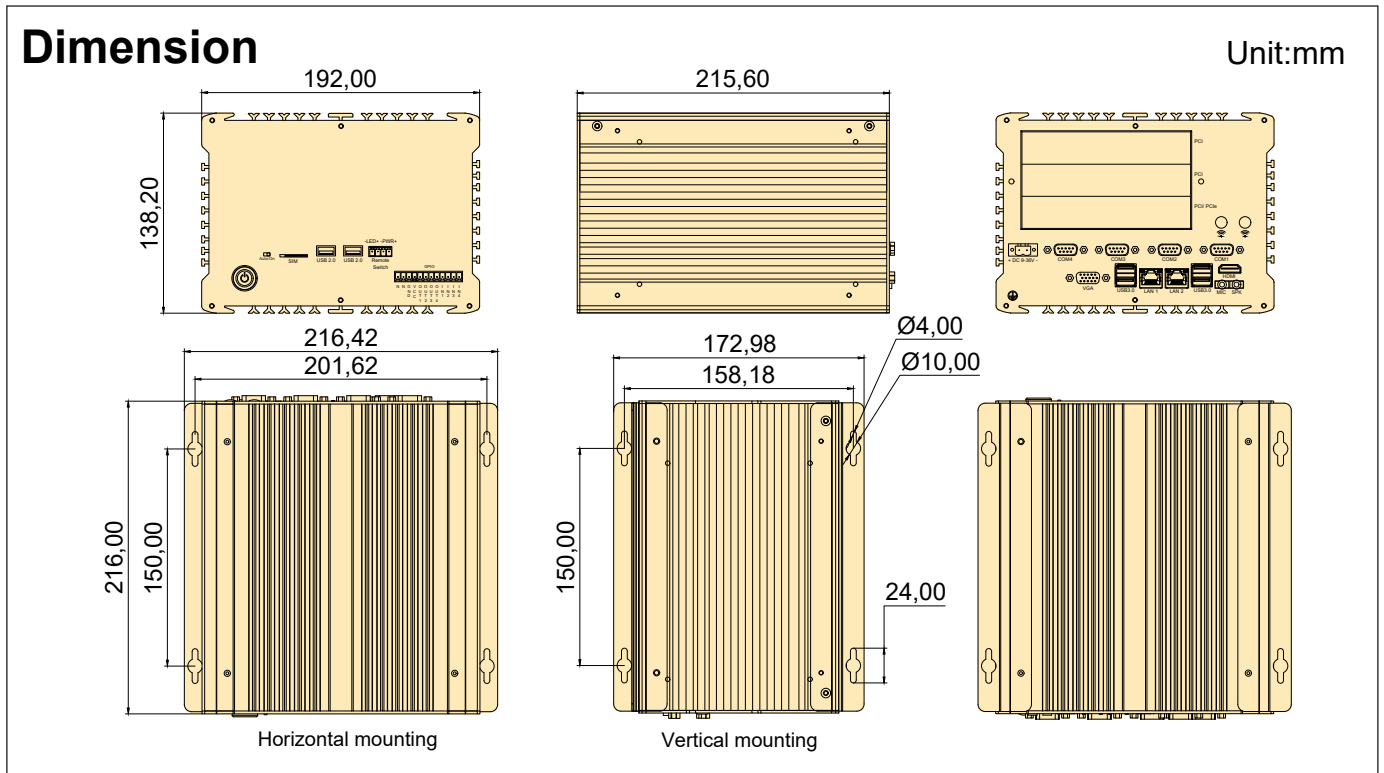
- Max six intergrated isolated RS232/485 with strong anti-interference capability and stability
- Cable-free design for better vibration resistance
- Modular parts design with strong scalability
- Full sealed fanless design, with aluminum alloy cooling enclosure, dustproof, anti-vibration and anti-interference;
- Scientific and reasonable interface layout
- Double board design with diverse interfaces



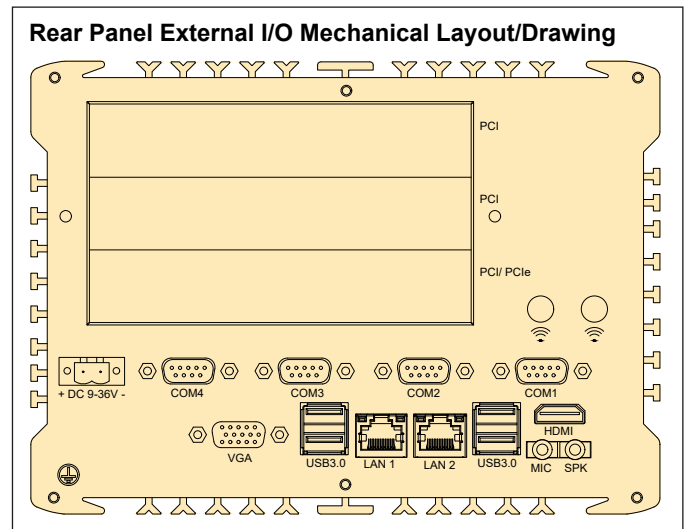
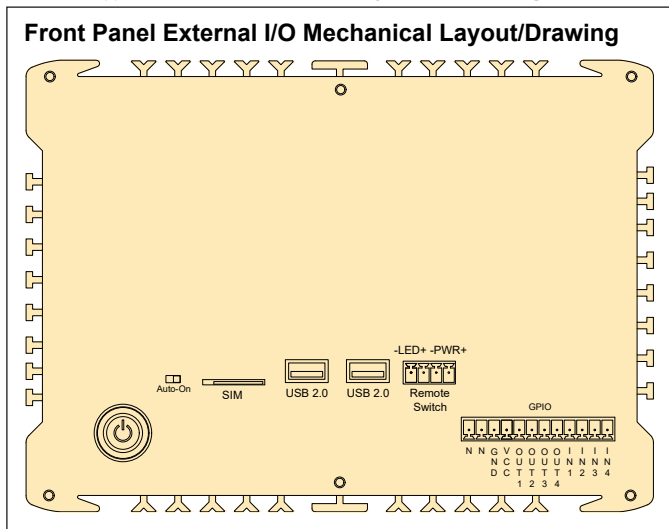
The actual appearance is subject to the final configuration.

## Specifications

<b>Model</b>	IBOX-108-2L4C-3P			
<b>Supported OS</b>	Win 7, Win 8, Win 10, Win 11, Linux (Ubuntu, Dbian, Kali, CentOS, etc.); WES 7; Win 10 IoT			
<b>CPU</b>	Series/ Model	4th~5th Gen. Intel® Core™ Processor	6th~8th Gen. Intel® Core™ Processor Intel® Celeron® 3865U	11th Gen. Intel® Core™ Processor
	TDP	Up to 15W	Up to 15W	Up to 28W
<b>RAM</b>	Type & Qty	1* SO-DIMM Socket	2* SO-DIMM Socket	2* SO-DIMM Socket
	Frequency	DDR3L-1333/1600 MHz	DDR4-2133/2400 MHz	DDR4-3200 MHz
	Capacity	Up to 8GB	Up to 32GB	Up to 64GB
<b>Storage Device</b>	SATA	1* 2.5" SATA3.0 Bay on board (6Gb/s)		
	MSATA	1* mSATA3.0 slot on board (6Gb/s)		
<b>I/O Interface</b>	COM	4* Isolated DB9 COM Ports with ESD/EFT/Surge protection (COM1-4, support RS232/485, switchable by jumper); 2* Internal COM headers on board (COM5-6, RS232)		
	Ethernet	2* 1.0 GbE LAN, Intel i211/i210, RJ45 only (Only Intel® Core™ i3-5020U is working with intel i210 GbE LAN)		2* 2.5 GbE LAN, Intel i225, RJ45
	USB	2* USB3.0; 4* USB2.0; 1* Internal USB2.0	4* USB3.0; 2* USB2.0; 1* Internal USB 2.0	2* USB3.0; 4* USB2.0; 1* Internal USB2.0
	Video	1* HDMI, Support 4096x2304@24Hz; 1* VGA, Support 1920x1200@60Hz;	1* HDMI, Support 4096x2304@24Hz; 1* VGA, Support 1920x1200@60Hz;	1* HDMI, Support 4096x2304@60Hz; 1* VGA, Support 1920x1200@60Hz;
	Audio	1* MIC, 1* SPK; With 5.1 channels HD Audio Codec Realtek ALC662	1* MIC, 1* SPK; With 5.1 channels HD Audio Codec Realtek ALC662	1* MIC, 1* SPK; With 7.1 channels HD Audio Codec Realtek ALC897
	SIM	1* External SIM card slot connected to Mini-PCIe		
	Power Supply	9-36V DC; 1* Terminal Block (2-Pin, 5.08mm)		
	Others	1* 8-bit GPIO, Terminal Block (12-Pin, 3.81mm), 4-Inputs/4-Outputs, 0-5V Input Range; 1* Terminal Block (4-Pin, 3.81mm Pitch) with Remote Switch and Power Indicator; 1* Auto-On Switch		
<b>Extended Capabilities</b>	PCIe	1* PCIe2.0 x1 with x4 socket+ 2* PCI; Or 3* PCI	1* PCIe3.0 x4 + 2* PCI; Or 3* PCI	
	Mini-PCIe	1* Full Size Mini-PCIe (PCIe+USB2.0) with SIM card slot		
<b>Environment</b>	Operating Temperature	-10 ~ 55 °C w/ 0.7m/s Airflow		
	Storage Temperature	-40 ~ 85 °C (-40~185 °F)		
	Relative Humidity	40 °C @ 95%, Non-Condensing		
<b>Physical Characteristics</b>	Dimensions	192* 138.2* 215.6 mm (W* H* D)		
	Net Weight	2.85 KG (The actual weight is subject to the final configuration)		
<b>Regulation</b>	EMC	CE/FCC Class B, CCC		
	Safety	CE-LVD, RoHS, CCC		



The actual appearance and dimensions are subject to the final configuration



## Ordering Information

SO-DIMM Slot	2.5" SATA3.0 Bay	mSATA3.0 Slot	PCIe or PCI Expansion Slot	Full Size Mini-PCIe	Isolated RS232/485 DB9 COM Port	RS232 Header	GbE LAN			
1 or 2	1	1	3	1	4	2	2			
USB3.0	USB2.0	Internal USB2.0	HDMI	VGA	Mic	SPK	External SIM Card Slot	8-bit GPIO	Remote Switch Terminal	Power Supply
2 or 4	4 or 2	1	1	1	1	1	1	1	1	DC 9-36V

## Packing list

Default Items	Qty
IBOX-108-2L4C-3P Unit	1
Wall mounting bracket	2
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	-

## Processors Info & Available List

CPU	Code Name	Total Cores	Total Threads	Max Turbo Frequency	Base Frequency	Cache	TDP	Memory Types	Integrated Graphics
Intel® Core™ I3-5020U	Broadwell	2	4	-	2.20 GHz	3 MB	15W	DDR3	Intel® HD Graphics 5500
Intel® Core™ I5-4300U	Haswell	2	4	2.90 GHz	1.90 GHz	3 MB Intel® Smart Cache	15W	DDR3	Intel® HD Graphics 4400
Intel® Celeron® 3865U	Kaby Lake	2	2		1.80 GHz	2 MB Intel® Smart Cache	15W	DDR3	Intel® HD Graphics 610
Intel® Core™ I5-6360U	Skylake	2	4	3.10 GHz	2.00 GHz	4 MB Intel® Smart Cache	15W	DDR4	Intel® Iris® Graphics 540
Intel® Core™ I7-6650U	Skylake	2	4	3.40 GHz	2.20 GHz	4 MB Intel® Smart Cache	15W	DDR4	Intel® Iris® Graphics 540
Intel® Core™ I5-7200U	Kaby Lake	2	4	3.10 GHz	2.50 GHz	3 MB Intel® Smart Cache	15W	DDR4	Intel® HD Graphics 620
Intel® Core™ I7-7600U	Kaby Lake	2	4	3.90 GHz	2.80 GHz	4 MB Intel® Smart Cache	15W	DDR4	Intel® HD Graphics 620
Intel® Core™ I3-8145U	Whiskey Lake	2	4	3.90 GHz	2.10 GHz	4 MB Intel® Smart Cache	15W	DDR4	Intel® UHD Graphics 620
Intel® Core™ I5-8265U	Whiskey Lake	4	8	3.90 GHz	1.60 GHz	6 MB Intel® Smart Cache	15W	DDR4	Intel® UHD Graphics 620
Intel® Core™ I7-8565U	Whiskey Lake	4	8	4.60 GHz	1.80 GHz	8 MB Intel® Smart Cache	15W	DDR4	Intel® UHD Graphics 620
Intel® Core™ I5-1135G7	Tiger Lake	4	8	4.20 GHz	2.40 GHz	8 MB Intel® Smart Cache	12-28W	DDR4	Intel® Iris Xe Graphics; 80Eus
Intel® Core™ I7-1165G7	Tiger Lake	4	8	4.70 GHz	2.80 GHz	12 MB Intel® Smart Cache	12-28W	DDR4	Intel® Iris Xe Graphics; 96Eus

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## Optional accessories or internal modules for unit

Optional Items	Max Qty	Description
Isolated RS-232	2	DB9 or Phoenix Terminal connector, connected by header
Non-Isolated RS-232	2	DB9 or Phoenix Terminal connector, connected by header
RS-422 With Surge Protection	2	DB9 or Phoenix Terminal connector, connected by header, with additional RS232 TO RS422 Module
RS-485 With Surge Protection	2	DB9 or Phoenix Terminal connector, connected by header, with additional RS232 TO RS485 Module
Isolated 8-bit GPIO, 9-24V	1	Phoenix Terminal connector, connected by non-standard M.2 interface
Isolated 8-bit GPIO with current loading, 9-26V	1	Digital signal, Phoenix Terminal connector, connected by non-standard M.2 interface
Isolated 15-bit GPIO, 0-5V	1	Digital signal, Phoenix Terminal connector, connected by non-standard M.2 interface
Isolated 15-bit GPIO with 7-in & 8-out, 12-24V	1	Digital signal, Phoenix Terminal connector, connected by non-standard M.2 interface
4G Module	1	Connected by Mini-PCIe interface
WiFi Module	1	Connected by Mini-PCIe interface or internal USB interface
Dual Channel CANBus Module	1	Connected by Mini-PCIe interface

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