

S106PLUS



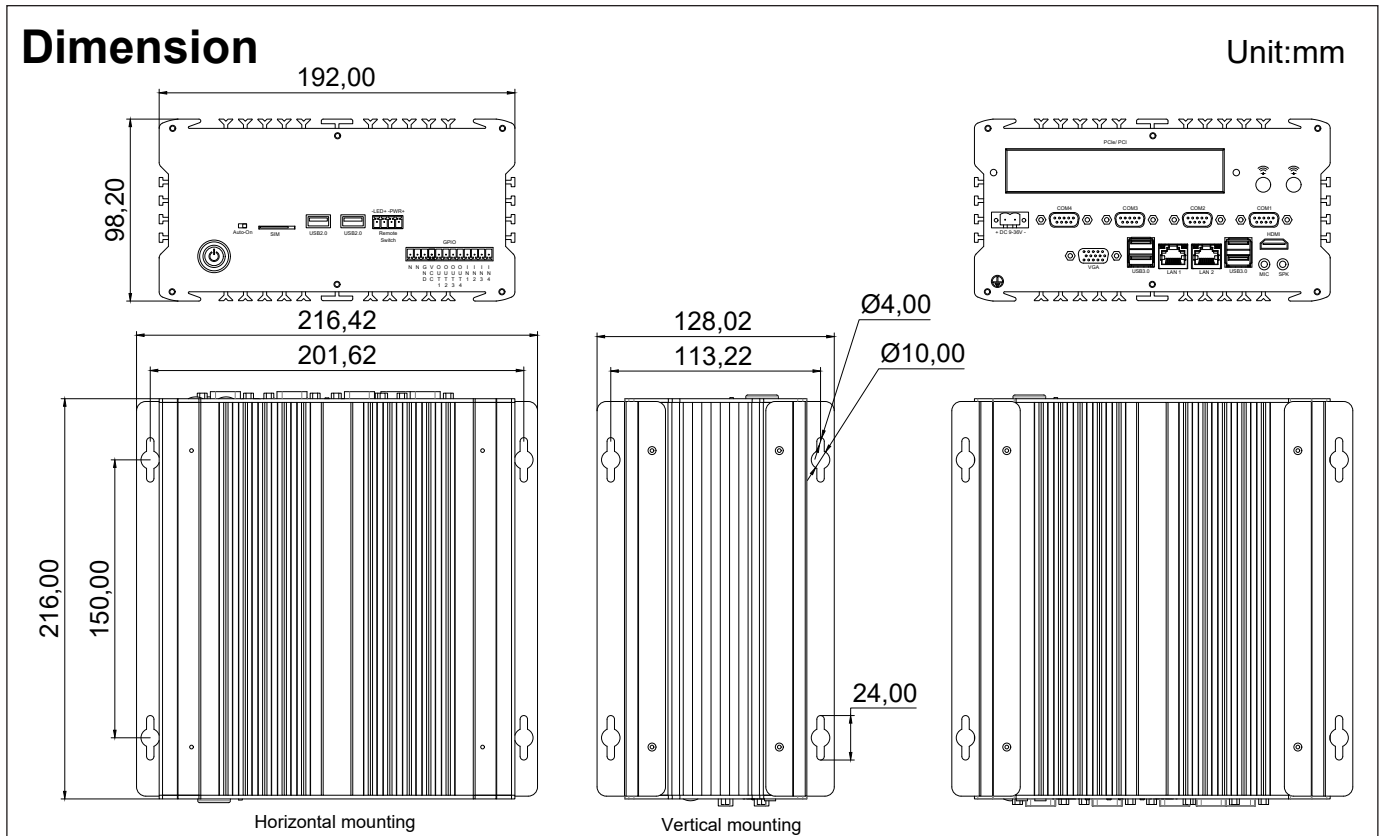
- Isolated RS232/485 with strong anti-interference capability
- Full aluminum alloy anti-interference structure
- Modular parts design with strong scalability
- Fully enclosed with fanless cooling system
- Cable-free design for better vibration resistance
- Scientific and reasonable interface layout
- Double board design with diverse interfaces



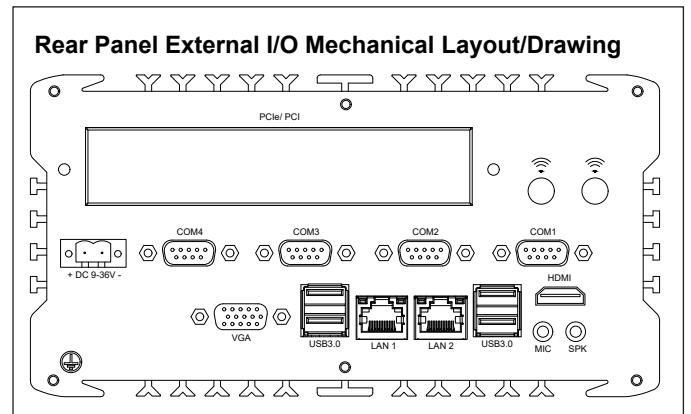
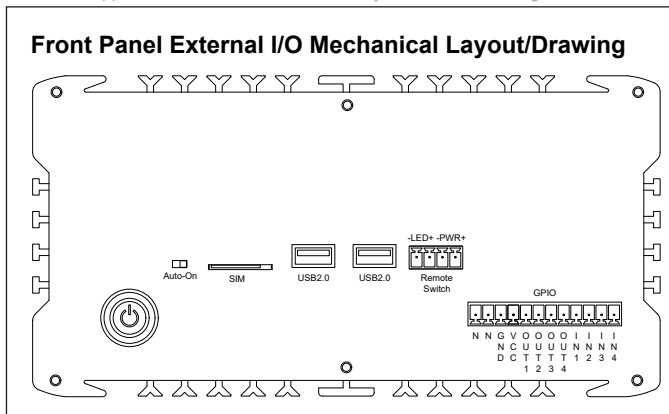
The actual appearance is subject to the final configuration.

Specifications

Model	S106PLUS			
Supported OS	Win 7, Win 8, Win 10, Win11, Linux (Ubuntu, Debian, Kali, CentOS, etc.); WES 7; Win 10 IoT			
CPU	Series/ Model	4th~5th Gen. Intel® Core™ Processor	6th~10th Gen. Intel® Core™ Processor Intel® Celeron® 3865U	11th Gen. Intel® Core™ Processor
	TDP	Up to 15W	Up to 15W	Up to 28W
RAM	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
Storage Device	SATA	1* 2.5" SATA3.0 Bay on board (6Gb/s)		
	MSATA	1* mSATA3.0 slot on board (6Gb/s)		
I/O Interface	COM	4* Isolated DB9 COM Ports with TVS 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		
Extended Capabilities	PCIe	1* PCIe2.0 x2 with x4 socket or 1* PCI	1* PCIe3.0 x4 or 1* PCI	
	Mini-PCIe	1* Full Size Mini-PCIe (PCIe+USB2.0) with SIM card slot		
Environment	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		
Physical Characteristics	Dimensions	192* 98.2* 216 mm (W* H* D)		
	Net Weight	2.85 KG (The actual weight is subject to the final configuration)		
Regulation	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	1	1	4	2	2				
USB3.0	USB2.0	USB2.0 Header	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	2	1	1	1	1	1	1	1	1	DC 9-36V

Packing list

Default Items	Qty
S106PLUS 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	2.20 GHz	3.40 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.